MODEL

TM14-16R/RP

TM20-16R/RP

COLOR MONITOR

SERVICE MANUAL

Ikegami®

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14" ---------- P-8640
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14" ---------- C3-902724A
20" ---------- C3-902705B
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K3-904198
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K3-904202
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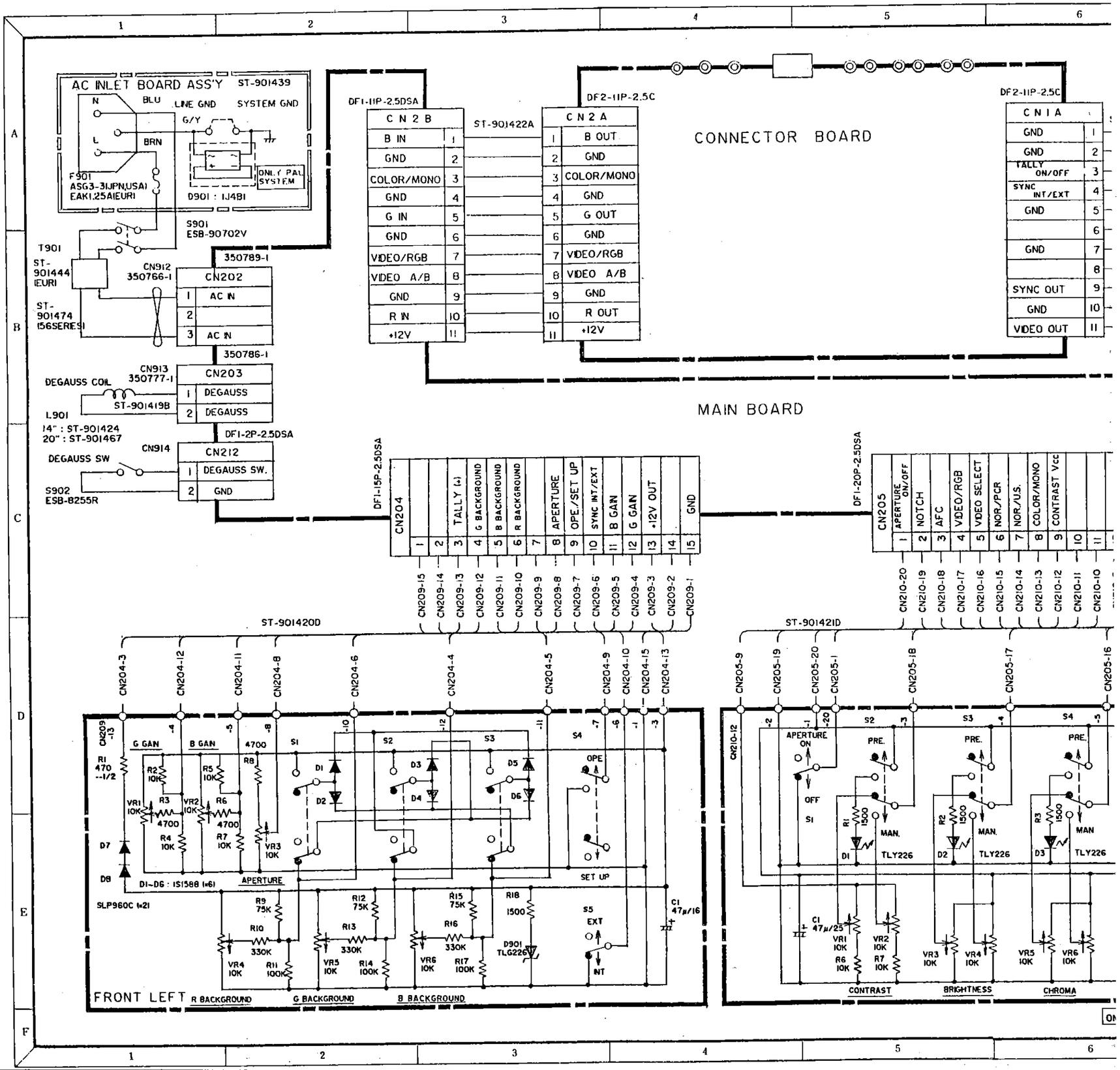
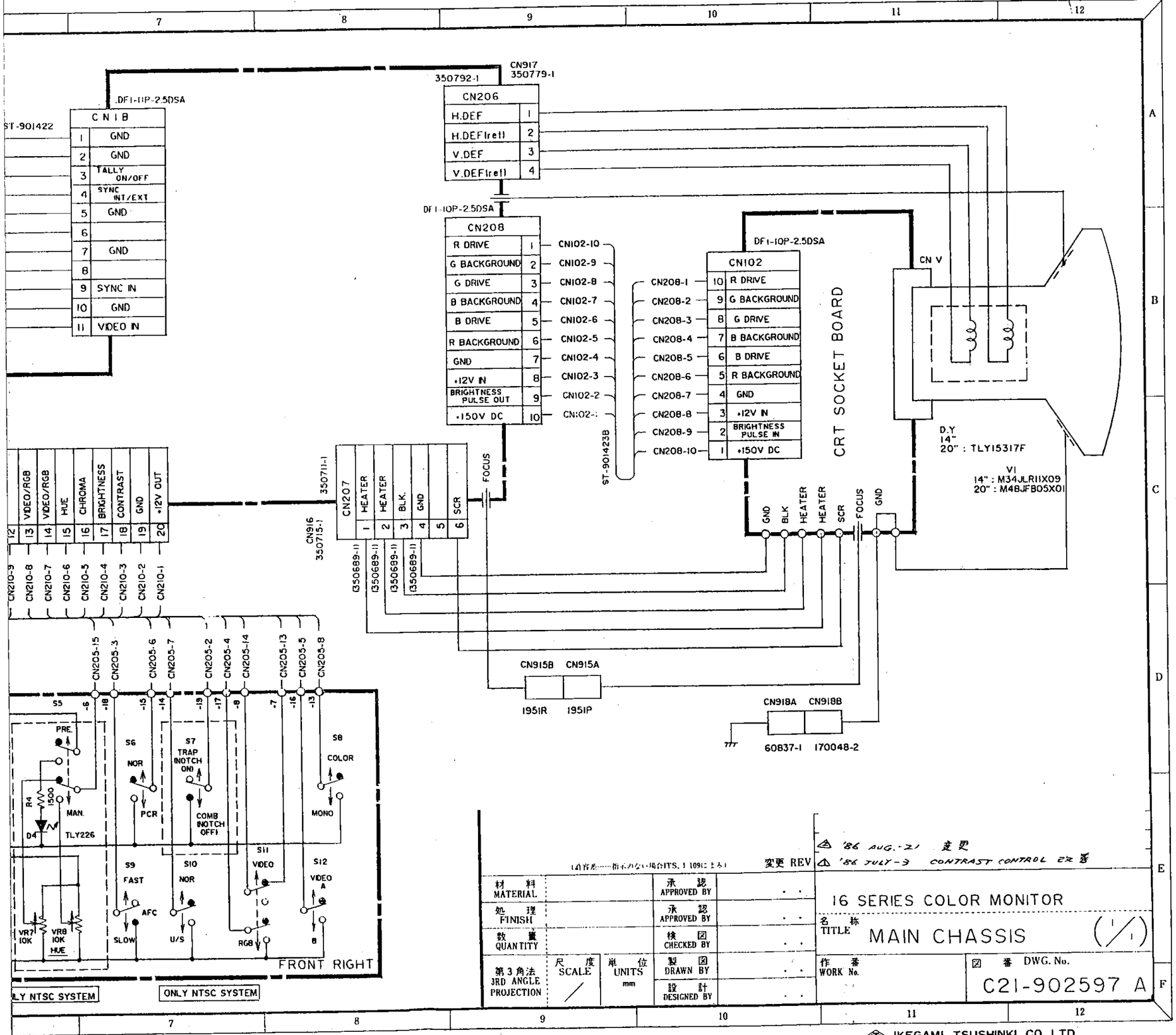
K3-904191
・TM20-16RP K3-904194
K3-904195
13. RACK TYPE
・14" K4-904492
・20" K4-904493


AC INLET BOARD ASS'Y ST-901439
N
BLU
LINE GND
SYSTEM GND
G/Y
L
BRN
F901
ASG3-3(JPN,USA)
EAK1.25A(EURI
ONLY PAL SYSTEM
D901 : 1J4B1
S901
ESB-90702V
T901
ST-901444 (EURI
ST-901474 (56SERES)
CN912
350766-1
350789-1
CN202
1 AC IN
2
3 AC IN
350786-1
CN913
350777-1
CN203
1 DEGAUSS
2 DEGAUSS
DEGAUSS COIL
ST-901419B
L901
14" : ST-901424
20" : ST-901467
DF1-2P-2.5DSA
CN914
CN212
1 DEGAUSS SW.
2 GND
DEGAUSS SW
S902
ESB-8255R
DF1-11P-2.5DSA
C N 2 B
B IN 1
GND 2
COLOR/MONO 3
GND 4
G IN 5
GND 6
VIDEO/RGB 7
VIDEO A/B 8
GND 9
R IN 10
+12V 11
ST-901422A
DF2-11P-2.5C
C N 2 A
1 B OUT
2 GND
3 COLOR/MONO
4 GND
5 G OUT
6 GND
7 VIDEO/RGB
8 VIDEO A/B
9 GND
10 R OUT
11 +12V
CONNECTOR BOARD
DF2-11P-2.5C
C N 1 A
GND 1
GND 2
TALLY ON/OFF 3
SYNC INT/EXT 4
GND 5
6
GND 7
8
SYNC OUT 9
GND 10
VIDEO OUT 11
MAIN BOARD
DF1-15P-2.5DSA
CN204
1 2 3 TALLY (+) 4 G BACKGROUND 5 B BACKGROUND 6 R BACKGROUND 7 8 APERTURE 9 OPE./SET UP 10 SYNC INT/EXT 11 B GAIN 12 G GAIN 13 +12V OUT 14 15 GND
CN209-15 CN209-14 CN209-13 CN209-12 CN209-11 CN209-10 CN209-9 CN209-8 CN209-7 CN209-6 CN209-5 CN209-4 CN209-3 CN209-2 CN209-1
DF1-20P-2.5DSA
CN205
1 APERTURE ON/OFF 2 NOTCH 3 AFC 4 VDEO/RGB 5 VDEO SELECT 6 NOR/PCR 7 NOR/U.S. 8 COLOR/MONO 9 CONTRAST Vcc 10 11
CN210-20 CN210-19 CN210-18 CN210-17 CN210-16 CN210-15 CN210-14 CN210-13 CN210-12 CN210-11 CN210-10
ST-901420D
CN204-3 CN204-12 CN204-11 CN204-8 CN204-6 CN204-4 CN204-5 CN204-9 CN204-10 CN204-15 CN204-13
CN209-13
G GAN
B GAN
4700
S1
S2
S3
S4
R1 470 --1/2
R2 10K
R5 10K
R8
D1
D3
D5
OPE
VR1 10K
R3 4700
VR2 10K
R6 4700
D2
D4
D6
R4 10K
R7 10K
VR3 10K
D7
D8
D1~D6 : 1S1588 (×6)
APERTURE
SET UP
SLP960C (×2)
R9 75K
R12 75K
R15 75K
R18 1500
S5
EXT
C1 47μ/16
R10 330K
R13 330K
R16 330K
D901 TLG226
INT
VR4 10K
R11 100K
VR5 10K
R14 100K
VR6 10K
R17 100K
FRONT LEFT
R BACKGROUND
G BACKGROUND
B BACKGROUND
ST-901421D
CN205-9 CN205-19 CN205-20 CN205-1 CN205-18 CN205-17 CN205-16
CN210-12
APERTURE ON
OFF
S1
S2
S3
S4
PRE.
MAN.
R1 1500
R2 1500
R3 1500
D1
D2
D3
TLY226
C1 47μ/25
VR1 10K
R6 10K
VR2 10K
R7 10K
VR3 10K
VR4 10K
VR5 10K
VR6 10K
CONTRAST
BRIGHTNESS
CHROMA



材料 MATERIAL			承認 APPROVED BY		16 SERIES COLOR MONITOR
処理 FINISH			承認 APPROVED BY		名称 TITLE: MAIN CHASSIS (1/1)
数量 QUANTITY			検図 CHECKED BY		作番 WORK No.
第3角法 3RD ANGLE PROJECTION	尺度 SCALE /	単位 UNITS mm	製図 DRAWN BY		図番 DWG. No. C21-902597 A
			設計 DESIGNED BY		

(面取寸法……指示のない場合JIS. B 109による)

変更 REV
⚠ '86 AUG.-21 変更
⚠ '86 JULY-3 CONTRAST CONTROL 改善

IKEGAMI TSUSHINKI CO., LTD.

2. CONNECTOR BOARD (NTSC only)

(1)General

This board selects a video signal and a sync signal to supply them to the MAIN BOARD.

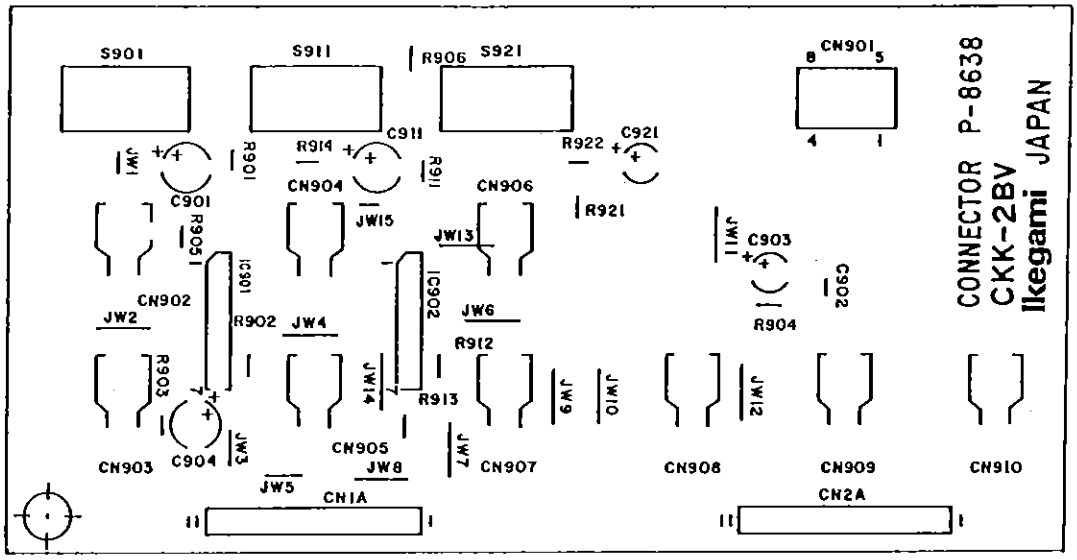
(2)Circuit Description

1)Video Signal System

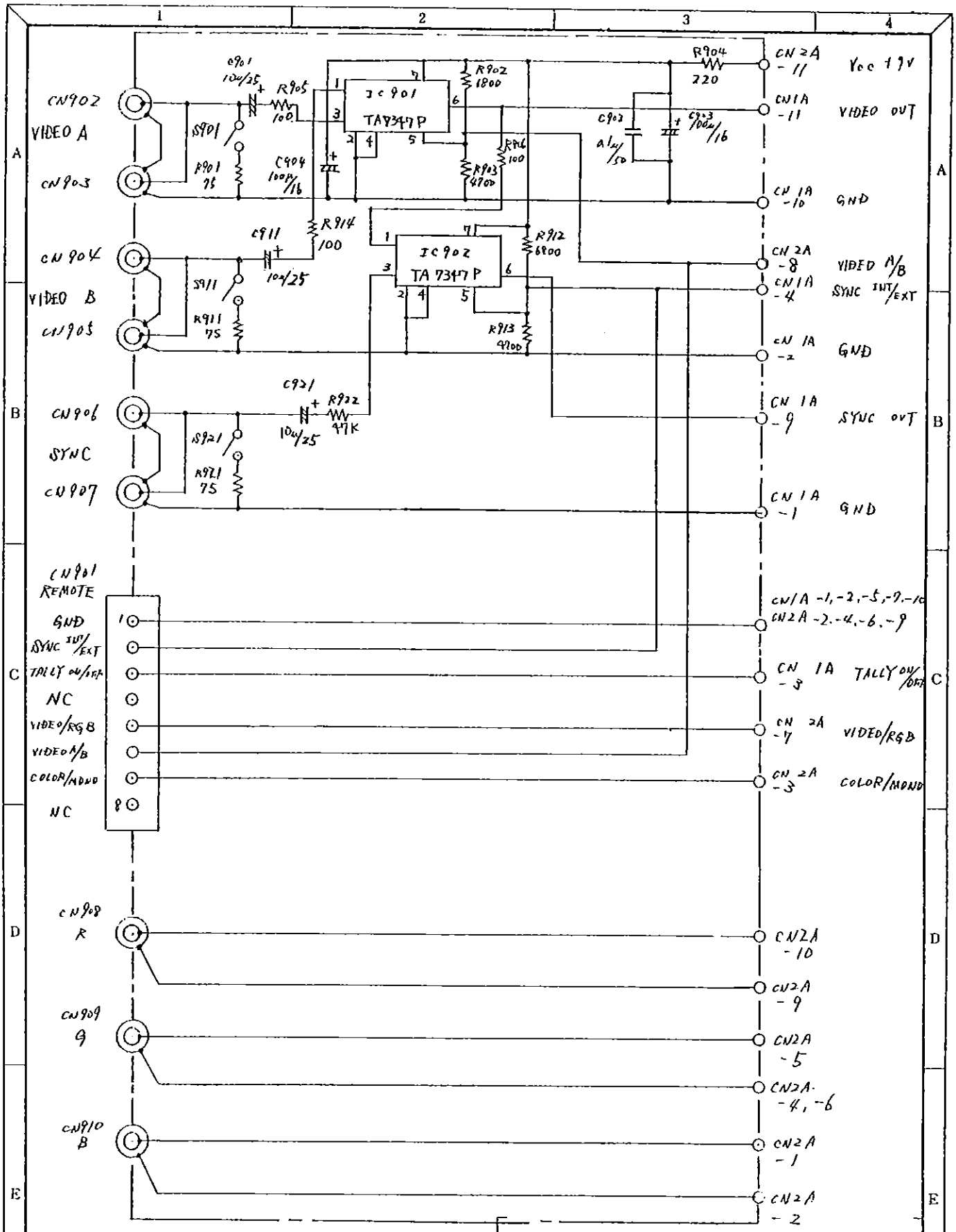
This board has 2 inputs for the composite video signal and Y/C input.
The composite video signals are inputted to IC901(TA7347P). The position of the VIDEO A/VIDEO B switch on the front panel selects either VIDLO A or VIDEO B. The selected signal is outputted from IC901 and supplied to the MAIN BOARD.
The R, G and B signals are supplied to the MAIN BOARD directly.

2)Sync Signal System

The selected composite video signal and an external sync signal are inputted to IC902, selected by the position of the SYNC INT/EXT switch on the operation section within the front panel, outputted from IC902, and then supplied to the MAIN BOARD.



TM14/20-16R
CONNECTOR BOARD
PARTS LOCATION
P-8638



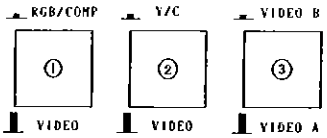
材料 MATERIAL		承認 APPROVED BY	. .	△ 61.8.21 変更	
処理 FINISH		承認 APPROVED BY	. .		
数量 QUANTITY		検図 CHECKED BY	. .	16 SERIES COLOR MONITOR	
第3角法 3RD ANGLE PROJECTION	尺度 SCALE /	単位 UNITS mm	製図 DRAWN BY k.suga 61.4.24	名称 TITLE CONNECTOR BOARD (/)	
			設計 DESIGNED BY . .	作番 WORK No.	図番 DWG. No. A C4-902679

(許容差…指示のない場合ITS1003による) 変更 REV 1

3. CONNECTOR-A BOARD (PAL only)

(1)General

This board selects a video signal and a sync signal to supply them to the MAIN BOARD.



(2)Circuit Description

1)Video Signal System

This board has 2 inputs for composite video signal, and each 1 input for Y/C, RGB, COMPONENT signal. In conformity to prior order for switches on the front panel, 1 input signal is selected.

①Operation of the switch ① (RGB,COMPONENT)

When this switch is set to the RGB/COMP position, its operation is prior to that of switch ② and ③.

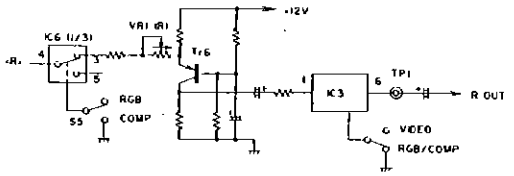
Each R(R-Y), G(Y), and B(B-Y) signal passes through the emitter follower of Tr4, Tr7 and Tr9 respectively, and is applied to IC6(μPD4053BC). Signals from IC6 are supplied to the circuit for either RGB or COMPONENT signal in conformity to the position of the RGB-COMP switch on the rear panel(switch S5 in this board).

a.The circuit for RGB signal

Each R, G and B circuit is the same, so the circuit description is prepared for the R channel only here.

The R signal from the Pin ③ of IC6 is amplified at the Tr6 and applied to the Pin ① of IC3(TA7347P).

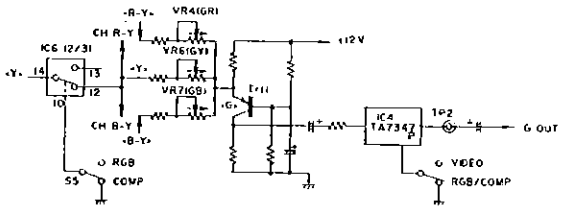
And then it passes through IC3 and it is supplied to the MAIN BOARD when the switch ① is set to the RGB/COMP position. But when the switch ① is set to the VIDEO position, it does not pass through IC3.

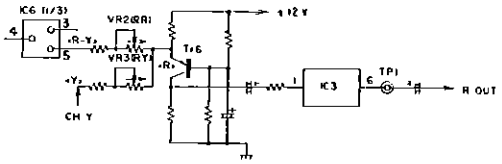


b.The circuit for COMPONENT signal

The R channel and the B channel have the same circuit, the G channel have the different circuit from them, and so the circuit description is prepared separately.

First in the G channel, the R-Y signal from the collector of Tr5 and the B-Y signal from that of Tr10 are matrixed with VR4(GR) and VR7(GB), the G-Y signal is produced, the G-Y signal and the Y signal from the Pin ⑫ of IC6 are matrixed with VR6(GY), the G signal is produced, and after amplified at Tr11, applied to IC4 (TA7347P).





When the switch ① is set to the RGB/COMP position, the G signal passes through IC4 and is supplied to the MAIN BOARD. But when the VIDEO position, the G signal does not pass.

The R channel and the B channel have the same circuit, so the circuit description is prepared for the R channel only here.

In this circuit, the R-Y signal from the Pin ⑤ of IC6 and the Y signal from the Pin ⑫ are matrixed with VR2(RR) and VR3(RY), the R signal is produced, and the R signal is supplied to the MAIN BOARD.

②Operation of the switch ② and ③(Y/C,VIDEO A,B)

When this switch is set to the Y/C position, its operation is prior to that of the switch ③.

The 3 input signals of VIDEO A, B and Y/C are applied to IC1(TA7348P).

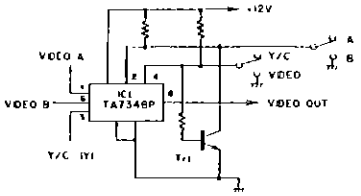
The signal selected by the operation of the switch ② and ③ is outputted from IC1, and applied to both IC2(TA7348P) and the MAIN BOARD.

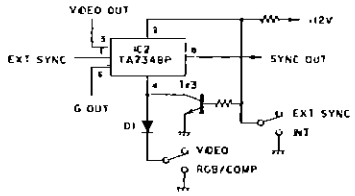
IC1 outputs one of three input signals even if the control terminals(the Pin ② and ④) is turned Hi or Low.
First, when the switch ② is set to the Y/C position, the Pin ④ of IC1 is turned Hi. And then Tr1 is turned on and the Pin ② is turned Low. Therefore the Y/C input signal (the Y signal of Y/C) inputted to the Pin ③ is outputted from the Pin ⑧.
Next,when the switch ② is set to the VIDEO position, the Pin ④ is turned Low. And then Tr1 is turned off and so the position of the switch ③ selects either the signal inputted to the Pin ① or ③. When the switch ③ is set to the A position, the Pin ② is turned Hi and then the VIDEO A signal inputted to the Pin ① is outputted from the Pin ⑧. When the switch ③ is set to the B position, the Pin ② is turned Low and then the VIDEO B signal inputted to the Pin ⑥ outputted from the Pin ⑧.

2)Sync Signal System

When the SYNC INT/EXT switch on the operation section within the front panel is set to the EXT position(EXT SYNC), Tr3 is turned on. Then the Pin ② of IC2 is turned Hi, the Pin ④ is turned Low, and the EXT SYNC signal inputted to the Pin ① is outputted from the Pin ⑧. When the INT position(INT SYNC), Tr3 is turned off and the Pin ② is turned Low. And when the switch ① is set to the VIDEO position, the Pin ④ is turned Hi and then the VIDEO OUT signal inputted to the Pin ③ is outputted from the Pin ⑧. When the RGB/COMP position, the Pin ④ is turned Low and then the G OUT signal inputted to the Pin ⑥ outputted from the Pin ⑧.

CONTROL		OUT
②	④	
H	L	①
L	H	③
L	L	⑥



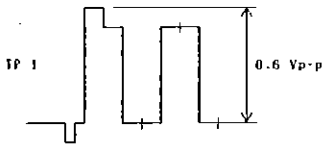


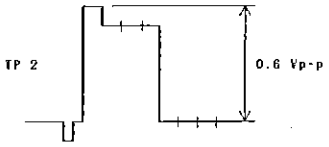
(3)Adjustment Procedure

Set the switch ① to the RGB/COMP position.

a.VR1(R)
VR5(G)
VR9(B)

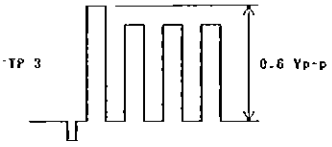
① Input a color bar signal(white 100%) of the R/G/B signal.
② Set the RGB-COMP switch on the rear panel(S5 in this board) to the RGB position.
③ Connect a probe to TP1.
④ Adjust VR1 so that the level of the waveform is 0.6Vp-p.
⑤ In the same manner, adjust VR5 and VR9 so that the level of the waveform at TP2 and TP3 is 0.6Vp-p respectively.





b.VR2(RR)
VR3(RY)

① Input a color bar signal(white 100%) of the Y/R-Y/B-Y signal.
② Set the RGB-COMP switch on the rear panel (S5 in this board) to the COMP position.
③ Connect a probe to TP1.
④ Adjust VR2 and VR3 as shown in the figure.



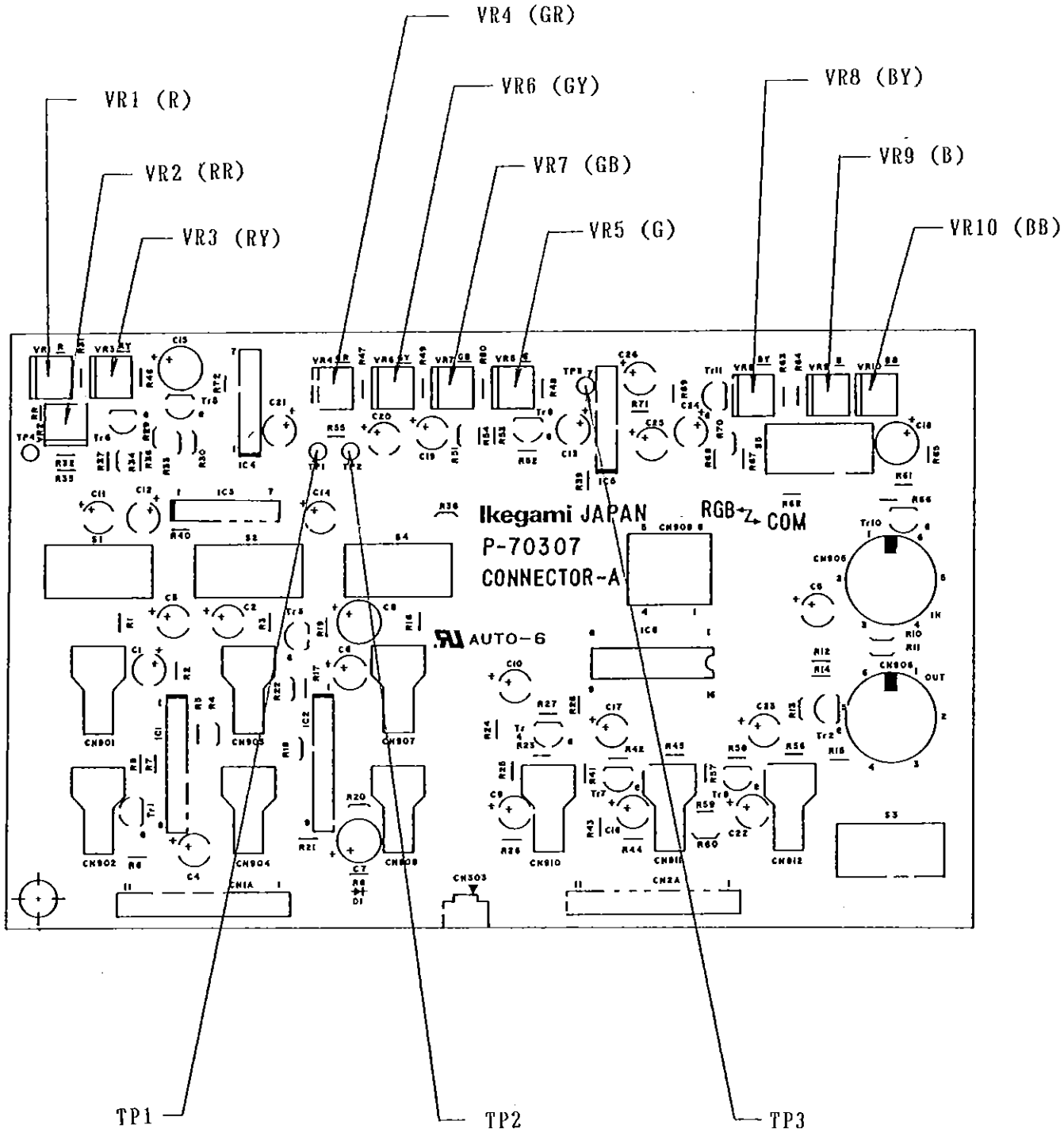
c.VR4(GR)
VR6(GY)
VR7(GB)

① Connect a probe to TP2.
② Adjust VR4, VR6 and VR7 as shown in the figure.

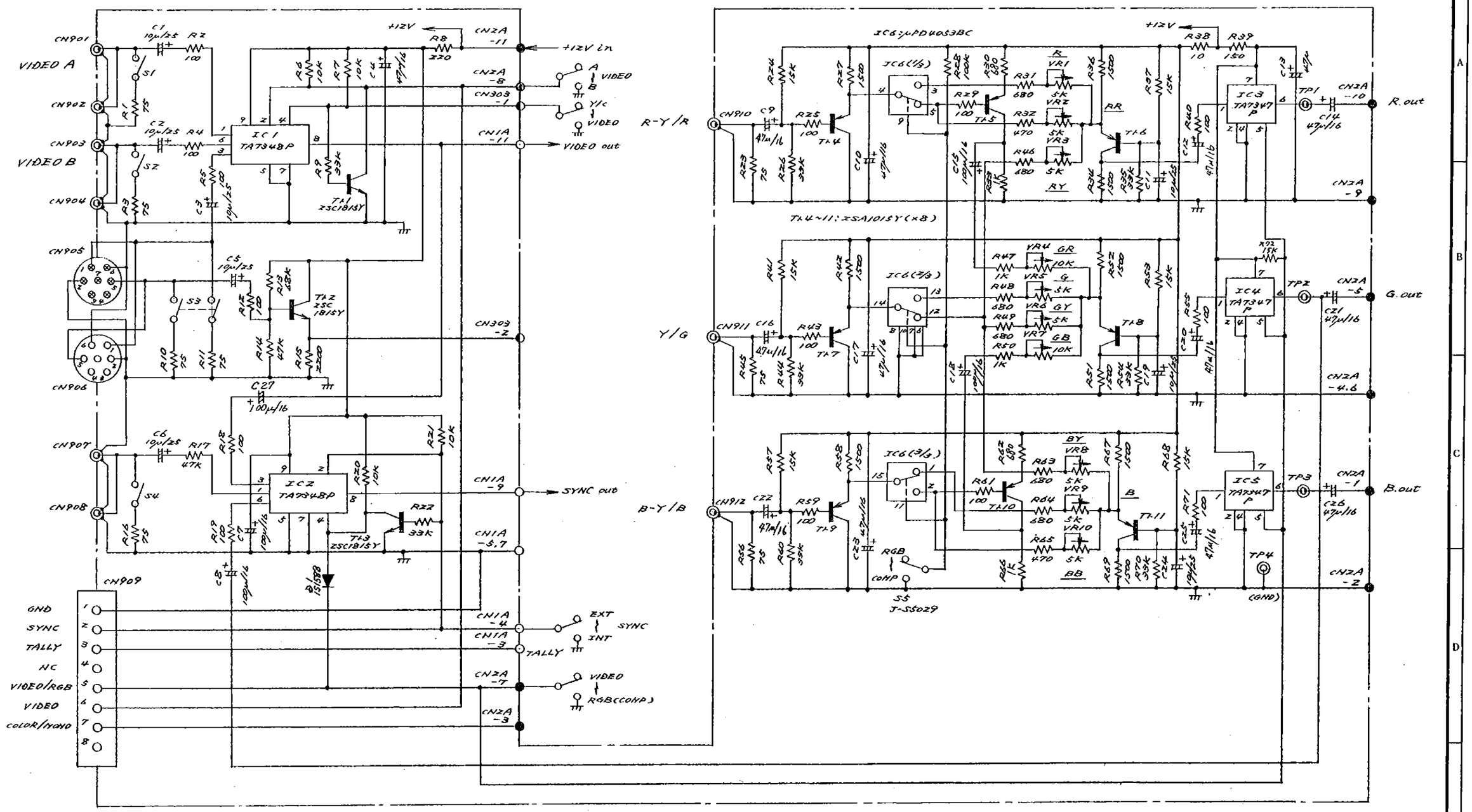
d.VR8(BY)
VR10(BB)

① Connect a probe to TP3.
② Adjust VR8 and VR10 as shown in the figure.

Note) Adjustment of items from b to d is in confomity to the N10 standard. In case of using the different standard, adjust controls of items from b to d.



TM14/20-16RP
CONNECTOR-A BOARD
PARTS LOCATION
P-70307



TA7348P	②	④	OUT
	L	L	⑥
	L	H	③
	H	L	①

NOTE:
1. All resistors are in ohms ± %(parts marked ; ± %). watt unless otherwise specified.
2. All capacitors are in farads, V unless otherwise specified.
3. All inductors are in henly unless otherwise specified.
4. Waveforms are taken with a color·bar signal input.
5. Parts marked ✱ are factory selected value.
6. Parts marked ★,(★) are critical components for X-RADIATION.
7. Parts marked ⚠ are special component for safety requirement.

(許容差…指示のない場合ITS,I-109による)

材料 MATERIAL		承認 APPROVED BY		
処理 FINISH		承認 APPROVED BY		
数量 QUANTITY		検図 CHECKED BY		
第3角法 3RD ANGLE PROJECTION	尺度 SCALE /	単位 UNITS mm	製図 DRAWN BY	高橋み 2·3·79
			設計 DESIGNED BY	

変更 REV 1

名称 TITLE: 16シリーズカラーモニタ
CONNECTOR-A BOARD

作番 WORK No.

図番 DWG. No. C3-904017

REV.

Ikegami IKEGAMI TSUSHINKI CO., LTD.

4. MAIN BOARD

(1)General

This board separates sync signal from EXT SYNC signal(or composite video signal) to produce HD and VD, and has power supply circuit and deflection circuit.
The power supply circuit supplies power to each board.
The deflection circuit applied deflection current to deflection yoke.

(2)Circuit Description

a.Luminance Signal System

The signal from the Pin ⑪ of CN1B is applied to the Pin ① of IC101(AN612), after controlling contrast by DC voltage from the CONTRAST control on the front panel that is applied to the Pin ② of IC101, and is amplified with Tr703 and Tr704. Then it is supplied to the PAL SUB-A BOARD or NTSC SUB BOARD via the emitter follower of Tr705.
The luminance signal(Y) from the PAL SUB-A BOARD or NTSC SUB BOARD passes through the aperture circuit composed of DL103, Tr113 and Tr115, its back porch is clamped to DC voltage at Tr210, the brightness pulse is added to it at IC204, then it is amplified with Tr212 and Tr213 and sent to the matrix circuit in the MATRIX SUB BOARD.
When the VIDEO/RGB/COMP switch on the front panel is set to the RGB/COMP position, Tr110 and Tr113 is turned off and the luminance signal is not sent to on and after the aperture circuit.

b.Chroma Signal System

The color difference signals(R-Y, G-Y and B-Y) from the PAL SUB-A BOARD or NTSC SUB BOARD and the color signals(R, G and B) that are inputted from the Pin ⑩, ⑤ and ① of CN2B respectively and then adjusted and amplified the level at VR103, VR113 and VR123 respectively, are added the input terminals of IC203(μPD4053BC).
Either the color difference signals or the color signals are selected with the VIDEO/RGB/COMP switch on the front panel.
The selected signals are sent to the matrix circuit in the MATRIX SUB BOARD via the emitter follower.

c.Sync/Pulse Signals System

The signal from the Pin ⑨ of CN1B is amplified with Tr701 and Tr702, sync-separated at Tr123, then passes through the emitter follower of Tr124, and is separated into the vertical and horizontal systems.
In the vertical system, the signal passes through the integrating circuit and it is inputted as VD(vertical deflection) signal from the collector of Tr304 into the Pin ⑤ of IC402(μPD4528BC).
In the horizontal system, the signal that the vertical sync signal and the equalizing pulse are removed from the sync signal at IC302(1/2μPD4528BC) is remained. This signal is sent to C402 and also sent to IC302(2/2μPD4528BC), its pulse width is controlled at IC302(2/2), and it is supplied to the PHASE-A BOARD.

d.Power Supply System

AC power input at CN202 passes through RL501(AJR3221-9) and the line filter(L501:SC05-100JV), enters the diode bridge(D502:10J4B41).
(When the power switch is turned on, the degaussing coil operates and at the same time the AC power reaches D502 through R511.)
The output of D502 is rectified by C505 and inputted to the Pin ③ of T501(ST-901471), then outputted to the Pin ① and enters the Pin ③ of IC501(STR53041). IC501 is doing switching operation synchronized with the horizontal deflection by switching pulses derived from the FBT. The switching pulses generated on the secondary side of T501 are severally rectified and become +12V, +52V, +105V and +150V.

e.Horizontal Deflection Circuit/High Voltage Circuit

The horizontal sync signal from IC302(1/2) is differentiated, inputted to the Pin ① of IC401(LA7850), its frequency and pulse width are controlled, and then sent to Tr414. Then it passes through the driving transformer(T401), and is switching the horizontal output transistor(Tr415) to produce the horizontal deflection current.
The flyback pulse obtained by switching Tr415 is sent to T402, and stepped-up and rectified on the secondary side, thereby a DC voltage of approx. 24KV is obtained. The screen and focus voltages are also obtained by dividing this voltage. This transformer is also used to supply power to the heater.

f.Vertical Deflection Circuit

The VD(vertical deflection) signal applied to IC402 is inputted to the Pin ⑲ of IC401. A saw-tooth wave signal synchronized with it is generated, drives the vertical output circuit. During a set-up time, the oscillation of the vertical output circuit can be stopped by turning Tr403 on.

Tr410 superimposes pulses on the output circuit in order to save power.

g.Blanking Circuit

Voltage-divided horizontal deflection pulse is supplied to the base of Tr412 whereas voltage-divided vertical deflection pulse is supplied to the base of Tr411. Both pulses are mixed by these transistors and are supplied to the CRT SOCKET BOARD.

h.X-ray/CRT Protection Circuit

To protect against excessively high voltage, voltage-divided horizontal output pulse with C446 and C445 passes through D437, its level is adjusted by VR404, it is rectified by D409 and C412, and then sent to the cathode of D408.

When a voltage of this cathode exceeds zener voltage, D408 is turned on, a voltage is supplied to the Pin ⑬ of IC401, and then drive pulse is stopped to prevent from the radiation of X-ray.

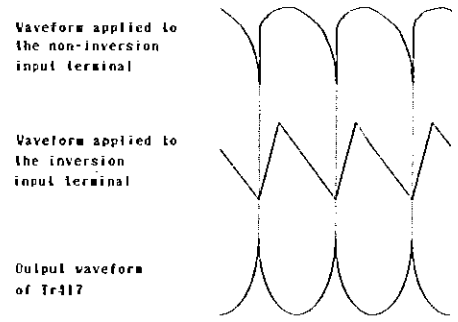
As to the horizontal deflection, the existence or absence of AFC pulses is discriminated by D411. If no pulses are detected, D410 is turned on and a voltage is applied to the Pin ⑬ through D408 in order to stop the drive pulse.

As to the vertical deflection, the existence or absence of blanking pulse is discriminated by D415. If no pulses are detected, D413 is turned on to stop the drive pulse. At a set-up time, Tr403 is turned on and the cathode of D414 is grounded in order not to operate the protection.

i.Pincusion(Side Pincusion)

The waveform derived from the Pin ④ of CN206 is added to the non-inversion input terminal of IC403(μPC4558C) while the saw-tooth waveform is applied to the inversion input terminal.

The difference between these input waveforms which are appeared on the output terminal of IC403 is applied to the base of Tr417 to modulate the horizontal deflection current through the L401.


Waveform applied to the non-inversion input terminal
Waveform applied to the inversion input terminal
Output waveform of Tr417

12

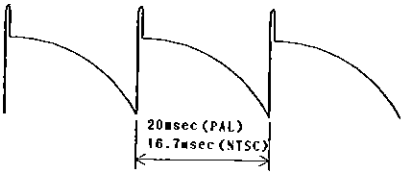
(3)Adjustment Procedure

The 16-series color monitor uses a switching power supply and its switching pulses are obtained from T402. For this reason, adjust the deflection system first, and then adjust the power supply system.

1)Deflection System

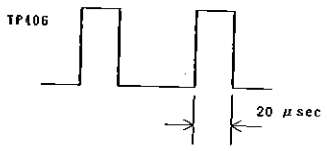
a.VR405(V HOLD)

① Set the SYNC INT/EXT switch to the INT position.
② Connect a probe to TP407.
③ Adjust VR405 so that the period is 16.7msec for the NTSC system or 20msec for the PAL system.



b.Functional checkup of each control

① Connect a probe to TP407.
② Check functions of VR406(V LIN), VR409(U/S HEIGHT), VR410(NOR HEIGHT), VR411(V LIN) and VR412(V CENT).
③ After completion of the above checkup, set these controls to the middle position.

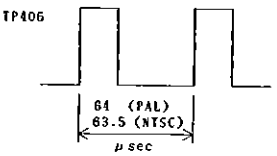


c.VR403(PULSE DUTY)

① Connect a probe to TP406.
② Adjust VR403 so that the pulse width is 20μsec.

d.VR402(H HOLD)

① Connect a probe to TP406.
② Set the SYNC INT/EXT switch to the INT position.
③ Adjust VR402 so that the period is 63.5 μsec for the NTSC system or 64μsec for the PAL system.



e.Side pincusion check

① Connect a probe to the collector of Tr417.
② Confirm that a parabolic waveform is appeared.
③ Check functions of VR413(SIDE PIN) and VR416(SIDE PIN PHASE).
④ After completion of the checkup, set these controls to the middle position.

f.Adjustment of each control

① Set the NOR/U-SCAN switch to the NOR position.
② Input a monoscope signal.
③ Adjust VR412(V CENT) and VR417(H CENT) so that the center of the monoscope circle is placed in the center of CRT.
④ Adjust the width of picture plane by VR414(NOR WIDTH).
⑤ Adjust the height of picture plane by VR410(NOR HEIGHT).
⑥ Adjust VR406 and VR411(V LIN) so that the optimum screen linearity can be achieved.

g.Adjustment of each control

① Set the NOR/U-SCAN switch to the U-SCAN position.
② Adjust VR401(H PHASE) so that the pictorial image becomes symmetrical in the right and left directions, in relation to the raster.
③ Adjust the width of picture plane by VR415(U/S WIDTH).
④ Adjust the height of picture plane by VR409(U/S HEIGHT).
⑤ Adjust VR413(SIDE PIN) and VR416(SIDE PIN PHASE) so that the pincusion distortion is minimum.

h.VR801(HV.REG)

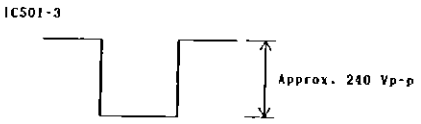
① Connect a probe to TP801.
② Adjust VR801 so that the voltage is DC9V.

i.VR404(PROTECT)

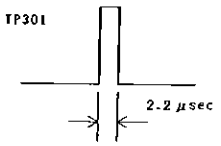
① Connect an external power supply unit to TP410 through a diode.
② The power supply voltage is gradually raised, and the anode voltage reaches 27.5KV.
③ Adjust VR404 so that the high-voltage protection starts work.

2)Power Supply System

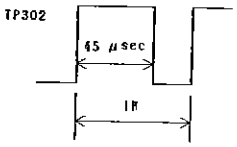
Be sure to use an insulated transformer to power the monitor when measuring the voltage on the "HOT" side using an oscilloscope.

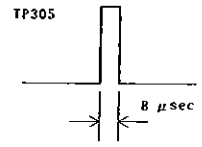


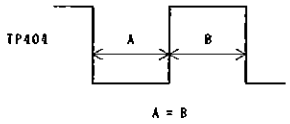
a.Checking of switching pulses(on the "HOT" side)
① Connect a probe to the Pin ③ of IC501.
② Connect a probe's GND lead-wire to the Pin ④ of IC501.
③ Confirm that the slow starter functions properly after the power switch has been turned on.
④ Confirm that the level of switching waveform is approx. 240Vp-p.
b.VR501(+B ADJ)
① Connect a probe to TP410.
② Adjust VR501 so that the +B voltage is DC 105V.



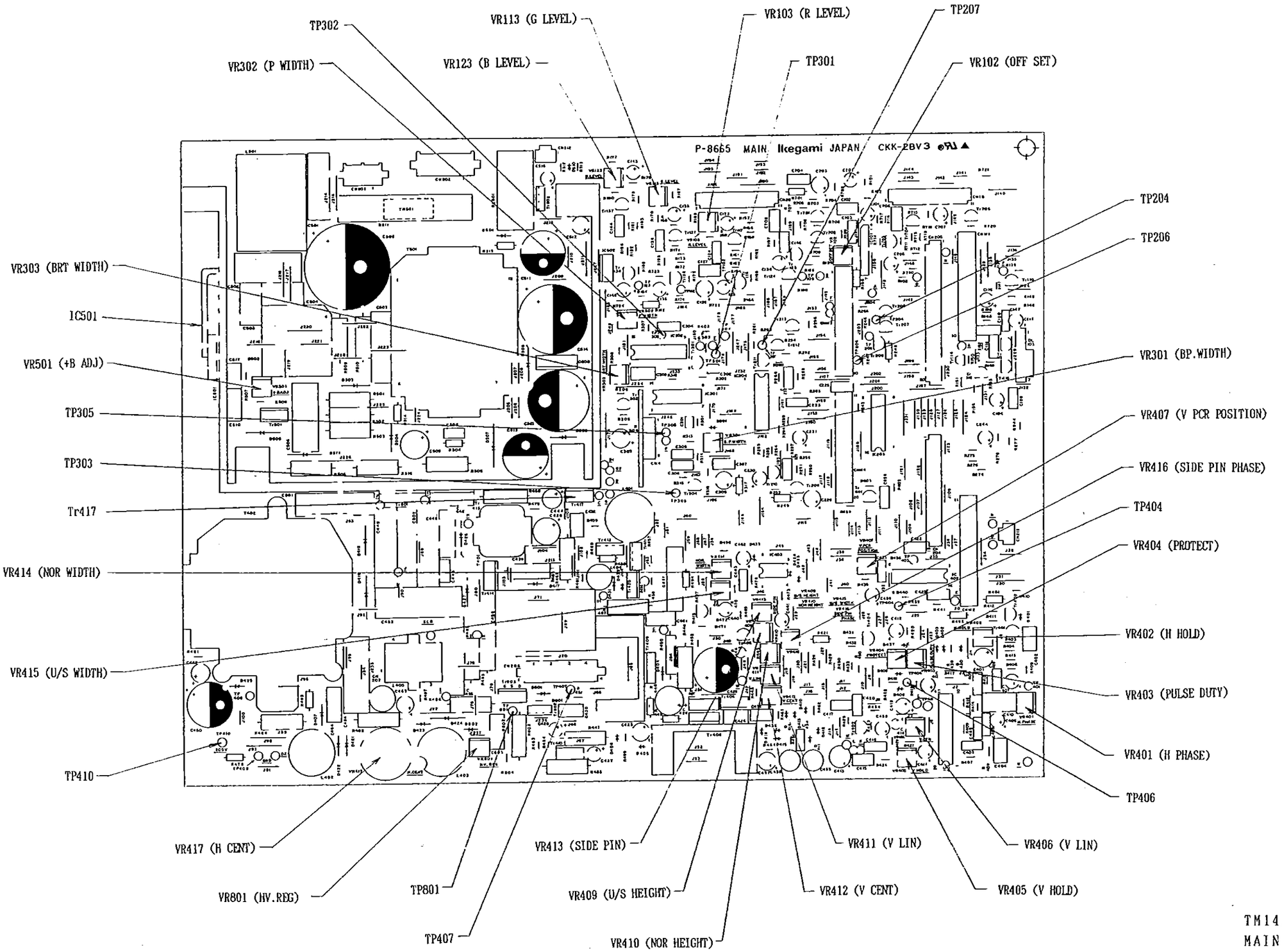
3)Pulse System
a.VR301(BP.WIDTH)
① Connect a probe to TP301.
② Adjust VR301 so that the pulse width is 2.2μsec.
b.VR302(P.WIDTH)
① Connect a probe to TP302.
② Adjust VR302 so that the pulse width is 45μsec.
c.VR303(BRT WIDTH)
① Connect a probe to TP305.
② Adjust VR303 so that the pulse width is 8μsec.
d.VR407(V.PCR POSITION)
① Connect a probe to TP404.
② Adjust VR407 so that the each width of A and B is fifty-fifty.







4)Video System
a.VR102(OFF SET)
① Input a color bar signal.
② Set the COLOR/MONO switch to the MONO position.
③ Connect a probe to R OUT in the MATRIX SUB BOARD(CN208-1).
④ Set the CONTRAST control on the front panel to the MIN position.
⑤ Adjust VR102 so that no video component remain in the waveform.
b.VR103(R LEVEL)
VR113(G LEVEL)
VR123(B LEVEL)
① Input a gray-scale signal.
② Set the VIDEO/RGB/COMP switch to the VIDEO position.
③ Connect a probe to R OUT in the MATRIX SUB BOARD(CN208-1).
④ Adjust the CONTRAST PRESET control on the front panel so that the level of the waveform is 0.46Vp-p for 14"monitor or 0.53Vp-p for 20"monitor.
⑤ Adjust the G GAIN and B GAIN control on the operation section within the front panel so that the level of the waveform at G OUT(CN208-3) and B OUT(CN208-5) in the MATRIX SUB BOARD are respectively the same level at R OUT.
⑥ Set the VIDEO/RGB/COMP switch to the RGB/COMP position.
⑦ Adjust VR103, VR113 and VR123 so that the level of each output in the MATRIX SUB BOARD are respectively the same level of the case that VIDEO/RGB/COMP switch is set to the VIDEO position.



TM14/20-16R/RP
MAIN BOARD
PARTS LOCATION
P-8665

H.FL CUB-18
CN205-6
CN205-3
NOR/PCR
+12V
R401 10½
HD
C401 100μ/25
D401 1S1588
K403 47K
R401 22K
VR401 20K
R405 10K
R406 33K
R407 1K
C403 0.006/50
R409 22K
R403 22K
C404 220P/200
TP401
2SC1815Y
H.PHASE
Tr402 2SA1015
R410 33K
R411 47K
R412 15K
R413 4700 1W/160
C405 0.01/50
C406 1/160
C407 0.0033/50
R414 33K
C408 0.01/50
C409 0.0033/50
C410 0.0033/50
H.HOLD
VR402 5K
R415 10K
R416 1K
PULSE.D
R417 15K
VR403 20K
R418 220
Tr436
R419 3300
TP441
D408 RD7.5EB1
C411 10/63
D437 RD10EB1
+12V
D409 1S1588
C412 1/160
IC401 LA7850
12V GND
D413 1S1588
D414 1S1588
R463 10K
C420 0.047/50
D412 1S1588
R462 10K
D410 1S1588
D411 1S1588
C433 10/25
C434 0.1/50
C436 0.033/50
D415 1S1588
R464 1K
C435 10/25
D416 1S1588
C437 1/160
R491 33K
R421 +12V 10½
C414 10/63
VR405 200K
R424 220K
R422 15K
C415 0.1/50
Tr403
C416 0.022/50
C413 220/25
C438 1/160
R425 100K
R426 33K
C417 0.01/50
C418 1/25
R427 68K
V.HOLD
V.LIN
VR406 50K
R428 680
C419 0.47/100
R429 22K
R430 15K
R431 3300
R432 22K
Tr404 2SC1815Y
R433 4700
R434 330
C458 1/160
R423 22K
2SC1815Y
SET UP /OPERATE
+12V
R442 10-½
V.PCR POSITION
C422 0.1/50
VR407 200K
R436 100K
C459 100/25
R435 22K
TP403
VD
C421 0.0047/50
μPD4528
IC402 ½
D430 1S1588
R438 10K
D402 1S1588
D403 1S1588
C423 0.01/50
R439 100K
TP404
R440 100K
R441 33K
IC402 ½
V.CENT
VR412 20K
R445 10K
Tr407 2SD1407Y 1408Y
Tr406 2SD1016Y
R446 680-2
D404 DFH10G
R449 1500 ½
R448 1500 ½
Tr409 2SD1407Y
D405 1S1588
C424 470P/200
R447 2.2-2
R499 10
D406 1S1588
Tr408 2SD1138D
C426 220/63
TP407
52V GND
R450 2.2-2 +52V
C427 10/63
C429 1000/63
C430 0.0033/200
R451 1500
U/S HEIGHT
2SC1815Y
Tr405
VR409 500
R443 220
VR410 500
V.LIN
VR411 1K
R444 5.6-1
NOR HEIGHT
CN206-4
CN206-3
CN206-7
CN206-2
CN206-1
R452 10K
+12V
U/S
NOR
COLD/非安電部
プロテクションが かかる (D410をOPENにすると 直ればOKになる)
Tr801 L801 R804
C801 1500P/1600
Tr801 2SD1651
D801 DF1005
R801 33
Tr802
R802 33K
Tr803 2SD1651
C802 1000P/1600
D802 V06
C803 0.01/250
R802 10K-2½
2SB596AC
+105V
R466 470-2
R467 470-2
C439 0.0022/630
R466 47K-2
D417 DFH10G
C438 10/160
Tr401 ETH-19Y2AY
Tr415 2SD1152
R417 1-2
20t
Tr414 2SC2333
C444 470P/2K
C445 0.022/50
D418 RU4-D
C448 0.0022/1600
C449 0.0022/1600
D419 DFH10G
C452 0.0047/1600
+105V
TP
R47 100K ½
IC403 MPC458C
D435 1S1588
C443 0.001/50
R476 33K
R478 1500
Tr417 2SD1409Y
C444 10/63
LADJ
SIDE PIN
R469 4700
C440 10/63
NOR WIDTH
R470 10K
D434
VR413 20K
VR414 10K
R497 2200
Tr413 2SC1815Y
VR415 50K
R494 4700-½
+5.2V
C462 47/50
D433 RD2.7EB1
R471 10K
U/S WIDTH
R473 4700
C441 10/63
VR416 5K
SIDE PIN PHASE
C464 0.1/250
L402
ST-9620
D421 DFH10G
D422 DFH10G
RK87 330
D425 DFH10G
VR417
5D-2 CW3
H.CENT
4.7mH
L405
1/10
0.68M/200 C454
R482 330-2
D423 DFH10G
L403 ELH-5L10KT
D407 DFH10G
R461 470K
C431 0.22/200
R496 33K-1
R460 47K
C432 100P/200
R459 33K
2SD1409Y
+105V
L404 LF5-33mH
R455 470-½
Tr420 2SC1514
D431 DFH10G
C428 10/63
Tr410 2SD1407Y
R454 470
R453 15K
R455 470-2
C461 0.047/100
2SC1514 Tr411
R456 15K
R457 1K
D432 1S1588
Tr412 2SC1514
D424
DFC1R
R483 68K-2
C455 0.001/1600

1. Tr415の破損
   トランスからノイズ(ピーという音)を発して電源が立ち上がらない。
2. C509の容量抜け
   +B ADJ がきかない(電圧が高すぎる)
3. Vの偏向STOP　C456のハンダ不良
4. D404のハンダ不良
   Vの偏向画像の上がなくFaの方だけ。

H.V
CN915B
FOCUS
DEGAUSS
CN212 DF11-2P-2.5DSA
HV.REG
VR601 1M
R809 680K
T402 ST-901265
D510 1S1888
R513 100K
Tr502 2SC2298B
R512 100
C516 47μ/25
RL501
R515 75-½
D501 DAH10TG
AJR32219
TH501 ERP-24 BUR100A
CN202
D502 10J4B41
C503 2200P/400AC
C502 0.22μ/250AC
C501 0.22μ/250AC
R511 3.3-10
L501 SC05-100JV
T501 ST-90147I
D509 DFC15TR
+150V
D508 FMU 36S
+105V
C515 100μ/250
C514 470μ/160
D507 DFD 12 30TG
+52V
C513 470μ/100
GND 52V 105V 150V
C505 470μ/200
C504 2200P/400AC
C506 0.1/400
R501 22K-2
R502 22K-2
R509 100K-2
D503 DFC15TR
C507 3300μ/160
IC501 STR 53041
R503 100K-2
R510 0.39-2
CN203
C508 0.1μ/50
R504 150 ½
IC502 AN 7812
OUT IN GND
+12V
C512 100μ/25
12V GND
D506 DFC 15TB
C511 220μ/25
C509 10μ/160
R505 100K-2
R514 100-½
D504 DFH10TG
R507 10K
C510 0.1μ/100
R508 100K
C517 0.0047μ/100
R516 10-2
R506 10-2
D505 DFH10TG
D511 DFH10TG
VR502 1M
Tr501 2SC1514
+B ADJ
R516
C517
D511
HOT/充電部
R493 10-½
CN207
TP408
D427 (×2)
R485 R486 510K-2(×2)
C456 0.1μ/400
1 HEATER
2 HEATER
3 BLK. IC
4 GND
5 NC
6 SCR
Last R 499 C 465 Tr 420 D 437 L 405

記号	年月日	変更	氏名
③	S.61.11.8	変更	T.INOUE
②	S61.10.20	変更	
①	S61.7.22	変更	

(許容差……指示のない場合ITS, I-109による)　変更 REV

材料 MATERIAL		承認 APPROVED BY	
処理 FINISH		承認 APPROVED BY	
数量 QUANTITY		検図 CHECKED BY	
第3角法 3RD ANGLE PROJECTION	尺度 SCALE /	単位 UNITS mm	製図 DRAWN BY / 設計 DESIGNED BY

16 SERIES COLOR MONITOR

名称 TITLE DEF and POWER BLOCK (2/2)

作番 WORK No.

図番 DWG. No. C11-902702C

IKEGAMI TSUSHINKI CO.,LTD.

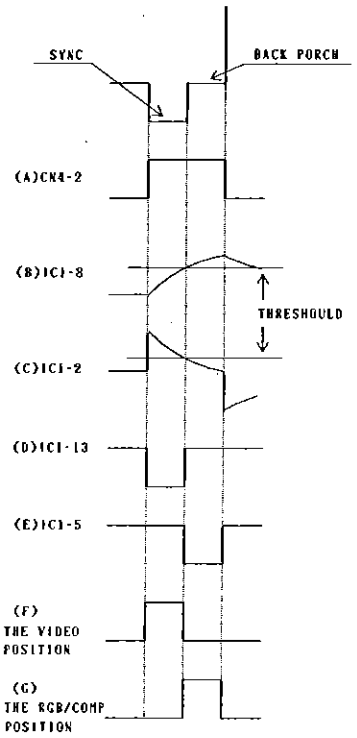
5. PHASE-A BOARD

(1)General

In this board, the brightness pulse from the MAIN BOARD is supplied. Its pulse characteristics is improved and its pulse phase is controlled as a clamping pulse for the last stage. Then the pulse is supplied to the MAIN BOARD again.

(2)Circuit Description

The pulse(A) is applied to CN4-2 from the MAIN BOARD. And then the pulse(B) is applied to the Pin ⑧ of IC1 by the integrator circuit composed of R1, VR1 and C2, and the pulse(C) is applied to the Pin ② by the differentiation circuit composed of C3, R2 and VR2. As the Pin ① is Hi, the pulse(D) appears at the Pin ⑬. As the pulse that appears at the Pin ⑨ is the same as the pulse(A), the pulse(E) appears at the Pin ⑤.



1)When the VIDEO/RGB/COMP switch on the front panel is set to the VIDEO position

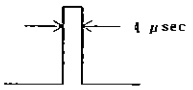
Tr110 on the MAIN BOARD is turned on, and CN4-4 is turned Low, and then D2 and Tr1 are turned on. Therefore the Pin ⑥ is turned Low, the Pin ⑫ is turned Hi, and no pulse appears at the Pin ④. But the pulse(F) appears at the Pin ⑪, passes through D5 and Tr2, and then is supplied to the MAIN BOARD.

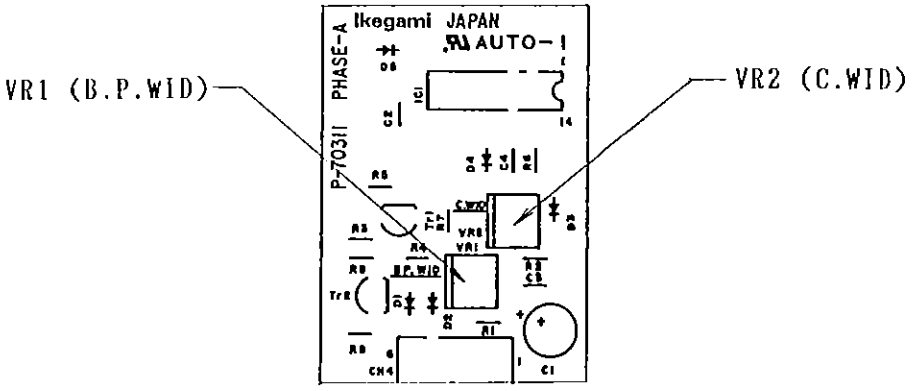
2)When the VIDEO/RGB/COMP switch is set to the RGB/COMP position

Tr110 is turned off, and CN4-4 is turned Hi, and then D2 and Tr1 are turned off. therefore the Pin ⑥ is turned Hi, the Pin ⑫ is turned Low, and no pulse appears at the Pin ⑪. But the pulse(G) appears at the Pin ④, passes through D5 and Tr2, and then is supplied to the MAIN BOARD.

(3)Adjustment Procedure

① Input an external sync signal.
② Connect a probe to TP303 on the MAIN BOARD.
③ Set the VIDEO/RGB/COMP switch on the front panel to the RGB/COMP position.
④ Adjust VR1(BP.WID) so that the pulse width is 4μsec.
⑤ Set the VIDEO/RGB/COMP switch to the VIDEO position.
⑥ Adjust VR2(C.WID) so that the pulse width is 4μsec.





TM14/20-16R/RP
PHASE-A BOARD
PARTS LOCATION
P-70311

6. MATRIX SUB BOARD

(1)General

In this board, the signals from the MAIN BOARD are matrixed, so the R, G and B signals are produced, and then supplied to the CRT SOCKET BOARD.

(2)Circuit Description

The Y signal from Tr21J on the MAIN BOARD is applied to the difference amplifier of the several channel, and is mixed with the color difference signals to become R, G and B signals, and then they are applied to the Pin ⑮ of IC601, IC602 and IC603 (HA11465A) respectively.

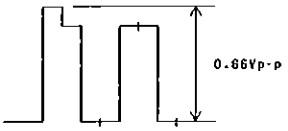
A DC voltage from the GAIN controls of the several channel are applied to the Pin ⑪, and it controls the gain of the signals of the several channel.

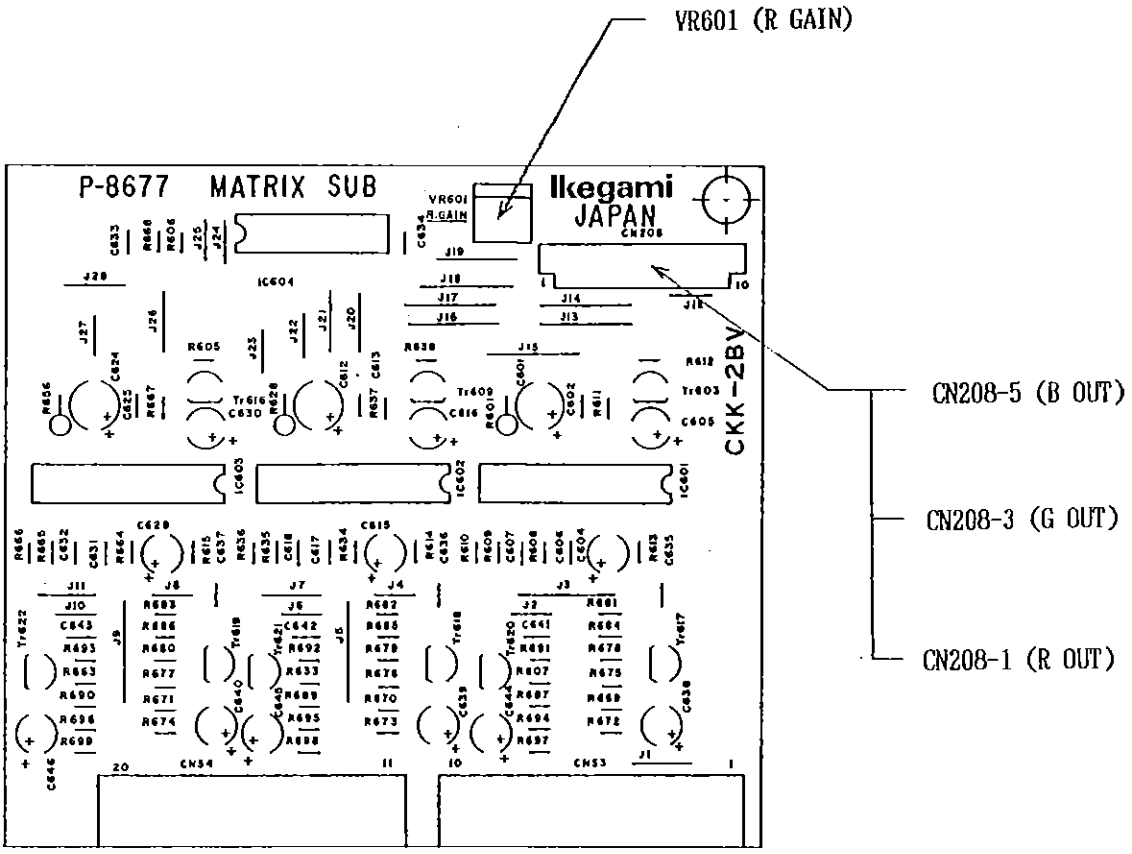
Then the signals pass through the emitter followers, and are supplied to the CRT SOCKET BOARD.

(3)Adjustment Procedure

a.VR601(R GAIN)

① Input a color bar signal.
② Connect a probe to R OUT(CN208-1) on the MATRIX SUB BOARD.
③ Set the CONTRAST control on the front panel to the MAX position.
④ Adjust VR601 so that the level of the waveform is 0.66Vp-p.





TM14/20-16R/RP
MATRIX SUB BOARD
PARTS LOCATION
P-8677

7. NTSC SUB BOARD (NTSC only)

(1)General

This board processes the composite video signal from the MAIN BOARD, produces the luminance signal(Y) and the color difference signal(R-Y, G-Y and B-Y), and supplies them to the MAIN BOARD.

(2)Circuit Description

1)Luminance Signal System

The composite video signal from the MAIN BOARD is supplied to the COMB circuit, its subcarrier is removed, it is delayed at DL102, and then supplied to the MAIN BOARD.

2)Chroma Signal System

The color signal separated from the luminance signal at the COMB circuit passes through the emitter follower of Tr108, is supplied to the 3.58MHz bandpass filter, its frequency characteristics is compensated at Tr201, and then it is applied to IC202(HA11436A).

Functions of IC202

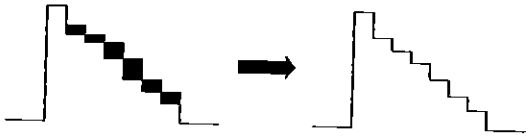
- ·Chroma control
- ·R-Y & B-Y demodulation
- ·G-Y matrix of the two signals above

The R-Y, G-Y and B-Y signals outputted from IC202 are supplied to the MAIN BOARD.

(3)Adjustment Procedure

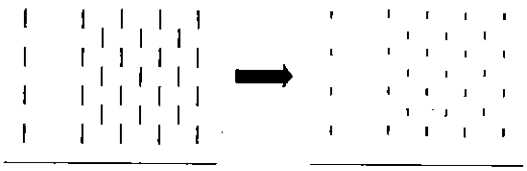
a.VR101(COMB LEVEL)
VR104
L103

① Input a color bar signal.
② Connect a probe to TP207(Y OUT) on the MAIN BOARD.
③ Set the COMB/TRAP switch on the front panel to the COMB position.
④ Adjust VR101, VR104 and L103 so that the carrier leak is minimum.



b.L104

① Connect a probe to TP207.
② Set the COMB/TRAP switch to the TRAP position.
③ Adjust L104 as shown in the figure.(Set the oscilloscope time axis to the V range.)

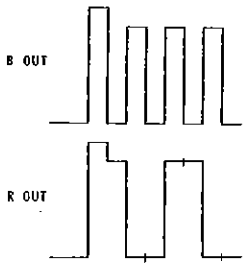


c.VR202(COLOR HOLD)

① Set the SYNC INT/EXT switch on the operation section within the front panel to the EXT position.
② Set the switch S1(AUTO/FORCED) to the FORCED position.
③ Connect a probe to B OUT(CN208-5) on the MATRIX SUB BOARD.
④ Adjust VR202 so that color hold is kept while gradually reducing the level of video signal input.
⑤ After completion of this adjustment, set S1 to the AUTO position and the SYNC INT/EXT switch to the INT position.

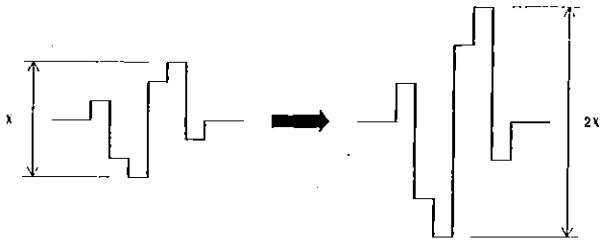
d.VR206(R-Y LEVEL)

① Connect a probe to B OUT.
② Adjust the HUE PRESET control and the CHROMA PRESET control so that the waveform is as shown in the figure.
③ Connect a probe to R OUT(CN208-1).
④ Adjust VR206 so that the waveform is as shown in the figure.

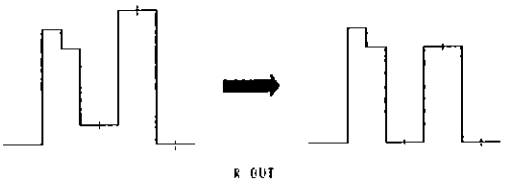


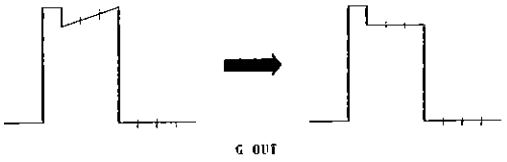
e. VR206(R-Y LEVEL)
VR203(G-Y LEVEL)
VR204(B-Y LEVEL)

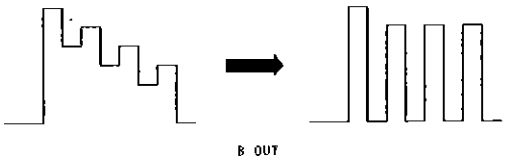
① Connect a probe to TP204 on the MAIN BOARD.
② Set the waveform to an arbitrary oscilloscope value X.
③ Set the CHROMA control on the front panel to the MAX position.
④ Adjust VR206 so that the level becomes 2X.

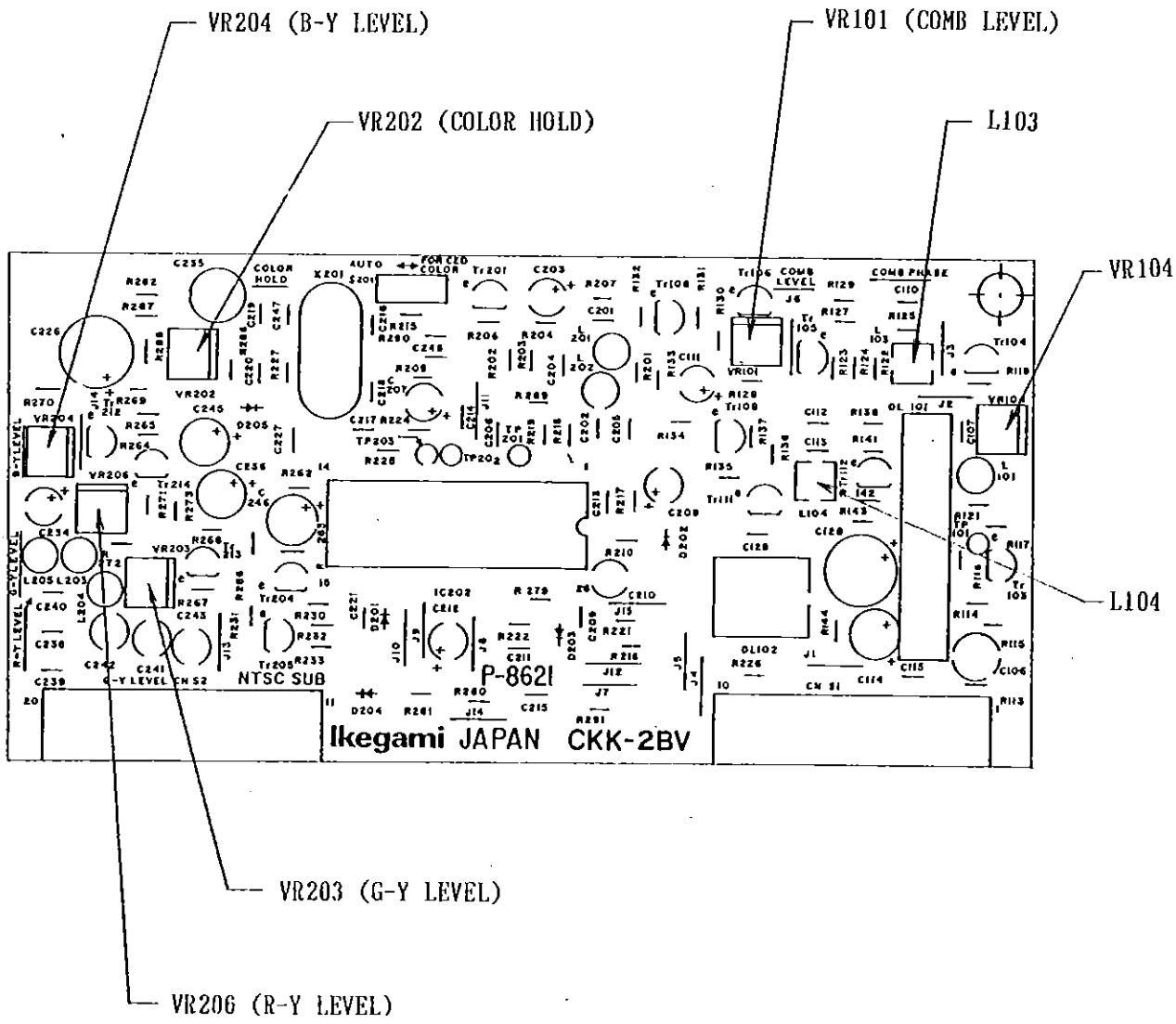


⑤ Preset the CHROMA control.
⑥ Adjust the CHROMA PRESET control so that the level becomes X.
⑦ Adjust VR206, VR203 and VR204 so that the waveforms at R OUT(CN208-1), G OUT(CN208-3) and B OUT(CN208-5) is as shown in the figure below.

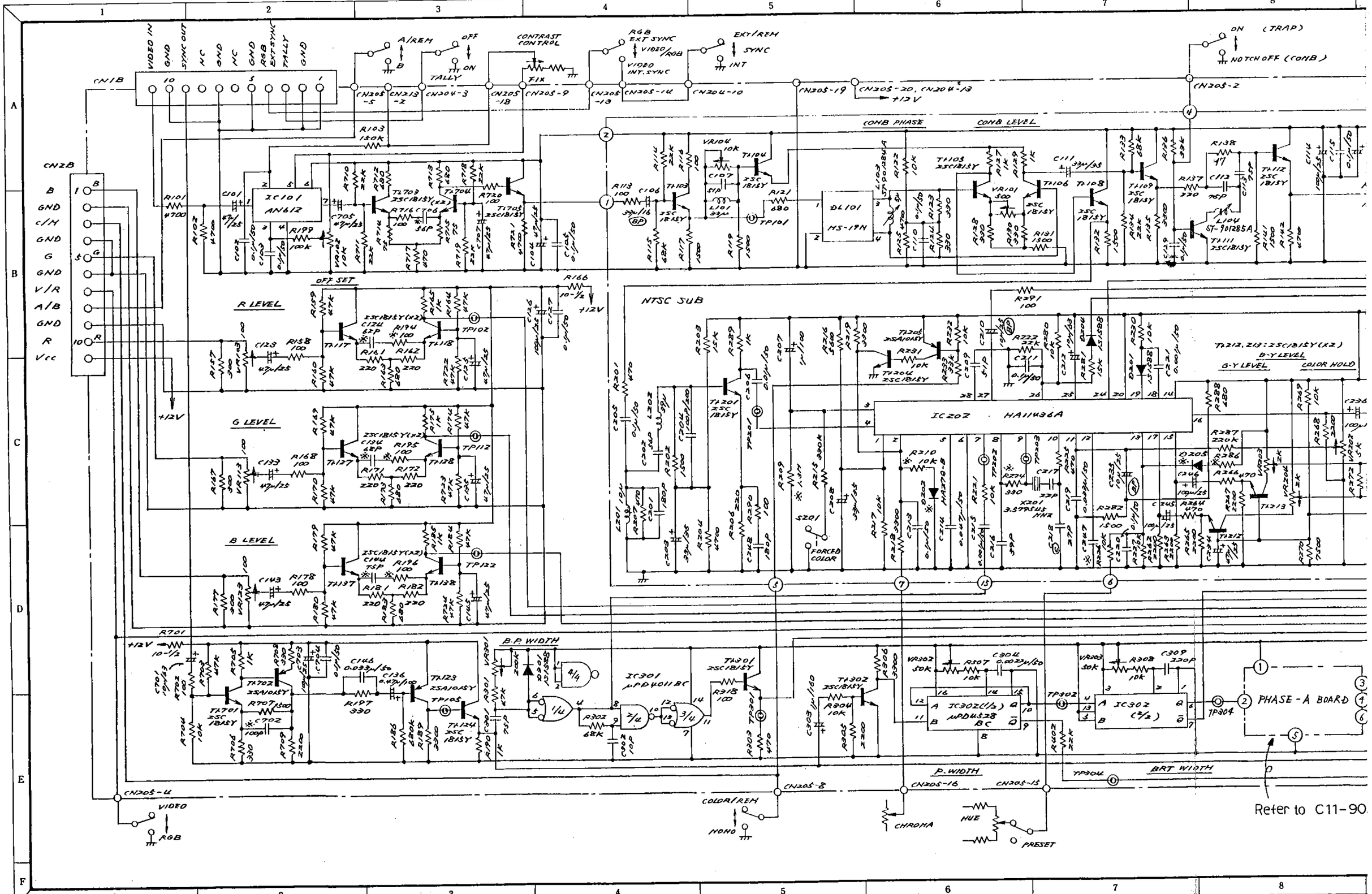


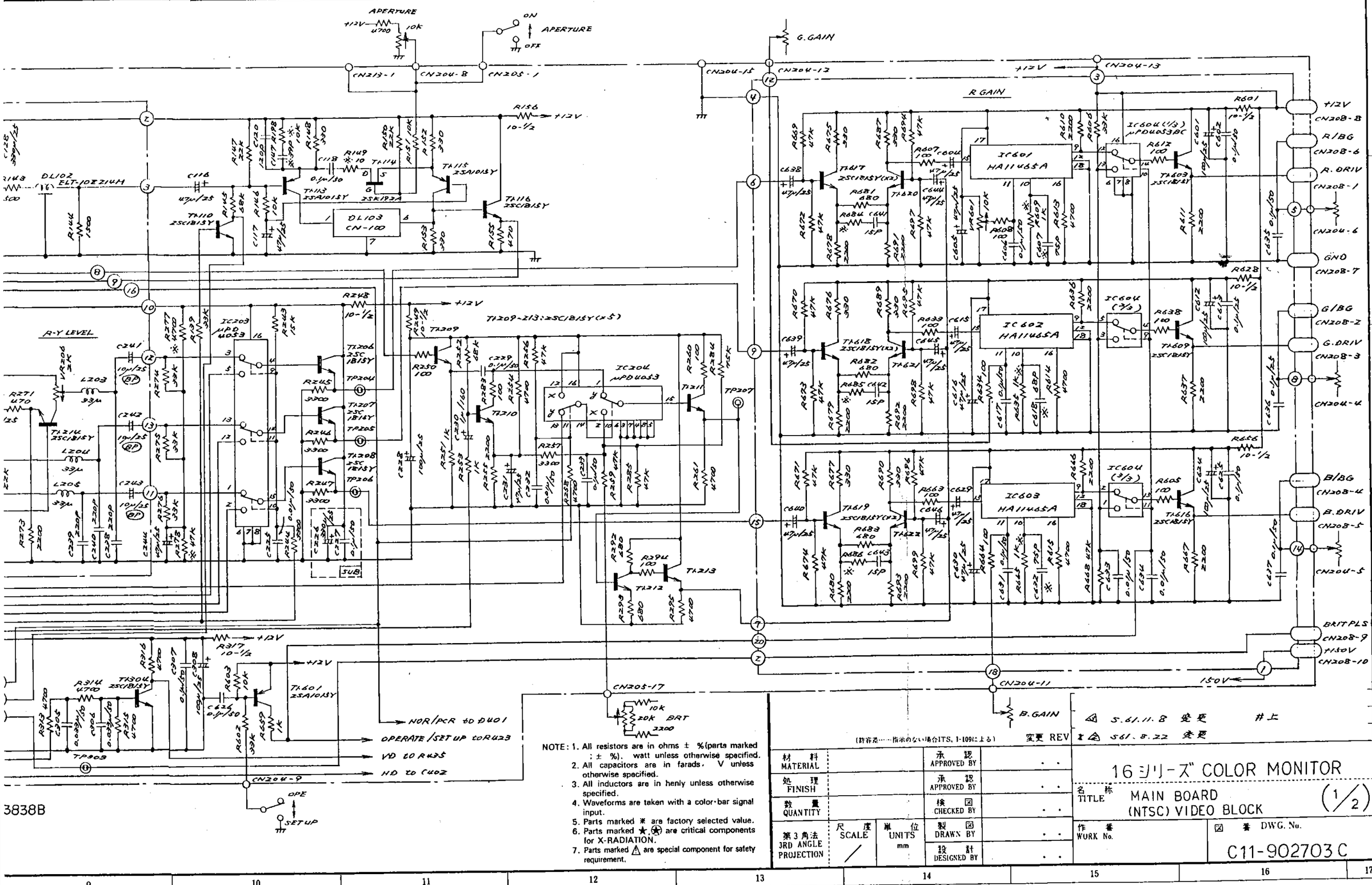






TM14/20-16R
NTSC SUB BOARD
PARTS LOCATION
P-8621


VIDEO IN
GND
SYNC OUT
NC
GND
NC
GND
RGB EXT SYNC
TALLY
GND
CN1B
A/REM
B
OFF
ON
TALLY
CONTRAST CONTROL
FIX
RGB EXT SYNC
VIDEO/RGB
VIDEO INT. SYNC
EXT/REM
SYNC
INT
ON (TRAP)
NOTCH OFF (COMB)
CN205-5
CN205-2
CN204-3
CN205-18
CN205-9
CN205-13
CN205-14
CN204-10
CN205-19
CN205-20, CN204-13
+12V
CN205-2
CN2B
B
GND
C/M
GND
G
GND
V/R
A/B
GND
R
Vcc
R101 470Ω
R102 470Ω
R103 150K
C101
IC101 AN612
R199 100K
VR102 10K
C102 0.1μ/50
C103 0.1μ/50
C104 47μ/25
C105 47μ/25
R710 22K
R711 22K
R712 220
R713 220
R714 75
R715 75
R716 100
R717 470
R718 22K
R719 22K
R720 100
R721 470Ω
T1703 2SC1815Y(x2)
T1704 2SC1815Y(x2)
T1705 2SC1815Y
C706 56P
C707 47μ/25
R113 100
C106 39μ/16
R114 22K
R116 100
R115 68K
R117 1500
R119 1000
T1103 2SC1815Y
VR104 10K
C107 51P
L101 33μ
T1104 2SC1815Y
R121 680
TP101
DL101 MS-19N
R122 10K
C108 0.01μ/50
R123 390
R124 4700
R125 4700
C110 0.1μ/50
R132 1500
T1105 2SC1815Y
R127 1K
R129 1K
VR101 500
T1106 2SC1815Y
T1108 2SC1815Y
C111 33μ/35
R133 68K
R134 22K
R135 3900
R126 33K
T1109 2SC1815Y
R138 47
R137 220
C113 75P
C112 75P
L104 ST-901285A
T1112 2SC1815Y
T1111 2SC1815Y
C114 100μ/35
C115 0.1μ/50
C116 0.1μ/50
C117 100μ/35
C118 0.1μ/50
C119 0.1μ/50
R131 1500
R136 4700
R138 330
R139 330
R140 330
R141 1500
R142 4700
C120 0.1μ/50
C121 0.1μ/50
C122 0.01μ/50
C123 47μ/25
R158 100
R157 300
VR112 1K
R159 47K
R160 1K
R161 220
R162 220
R163 680
R164 47K
R165 47K
R194 100
R195 100
R171 220
R172 220
R173 680
R174 47K
R175 47K
T1117 2SC1815Y(x2)
T1118 2SC1815Y(x2)
C124 47P
C125 47μ/25
C126 100μ/25
C127 0.1μ/50
TP102
R166 10-1/2
+12V
OFF SET
R LEVEL
G LEVEL
B LEVEL
C133 47μ/25
R168 100
R167 300
VR113 1K
R169 47K
R170 47K
R171 220
R172 220
R173 680
R174 47K
R175 47K
T1127 2SC1815Y(x2)
T1128 2SC1815Y(x2)
C134 47P
R195 100
TP112
C143 47μ/25
R178 100
R177 300
VR114 1K
R179 47K
R180 47K
R181 220
R182 220
R183 680
R184 47K
R185 47K
T1137 2SC1815Y(x2)
T1138 2SC1815Y(x2)
C144 75P
R196 100
TP122
NTSC SUB
R201 470
R203 15K
R239 1K
R206 5600
R207 3900
C207 1μ/100
C205 0.1μ/50
C202 330
C201 1800
C204 100P/200
L201 10μ
R202 1500
R204 4700
R205 220
R208 100
C208 33μ/35
T1201 2SC1815Y
R209 1K
R215 390K
S201
FORCED COLOR
C203 33μ/35
C206 0.1μ/50
C209 0.1μ/50
C210 0.1μ/50
C211 0.1μ/50
R222 22K
R223 10K
R224 330
C217 33P
C215 0.033μ/50
C216 0.047μ/50
C218 270
C219 0.033μ/50
R231 10K
R232 10K
R233 33K
T1206 2SA1015Y
T1204 2SC1815Y
R228 15K
D201 1S1588
R230 10K
C221 0.01μ/50
C222 0.01μ/50
R237 10K
R238 3300
R282 1500
C247 0.1μ/50
C220 0.1μ/50
R234 100K
R235 2200
R236 2200
C234 0.1μ/50
C235 10μ/25
C246 10μ/25
C245 0.1μ/50
C244 0.1μ/50
C243 0.1μ/50
C242 0.1μ/50
C241 0.1μ/50
C240 0.1μ/50
C239 0.1μ/50
C238 0.1μ/50
C237 0.1μ/50
C236 100μ/16
R268 2200
R269 10K
R270 7500
R271 5K
R272 VR202 2K
VR204 2K
T1213
T1212
T1212, 213: 2SC1815Y(x2)
B-Y LEVEL
G-Y LEVEL
COLOR HOLD
R287 220K
R286 220K
R285 470
R284 470
R283 220
R288 480
D205 1S1588
D206 1S1588
X201 3.579545 MHz
IC202 HA11436A
R210 10K
R211 10K
R212 10K
R213 10K
R214 10K
R215 10K
R216 10K
R217 10K
R218 10K
R219 10K
R220 10K
R221 10K
R222 10K
R223 10K
R224 10K
R225 10K
R226 10K
R227 10K
R228 10K
R229 10K



NOTE:
1. All resistors are in ohms ± %(parts marked ; ± %). watt unless otherwise specified.
2. All capacitors are in farads. V unless otherwise specified.
3. All inductors are in henly unless otherwise specified.
4. Waveforms are taken with a color-bar signal input.
5. Parts marked * are factory selected value.
6. Parts marked ★,㊛ are critical components for X-RADIATION.
7. Parts marked ⚠ are special component for safety requirement.

(許容差……指示のない場合JTS, 1-109による)

変更 REV

△1 S.61.11.8 変更 井上

△2 S61.8.22 変更

材料 MATERIAL		承認 APPROVED BY	
処理 FINISH		承認 APPROVED BY	
数量 QUANTITY		検図 CHECKED BY	
第3角法 3RD ANGLE PROJECTION	尺度 SCALE / 単位 UNITS mm	製図 DRAWN BY	
		設計 DESIGNED BY	

16シリーズ" COLOR MONITOR

名称 TITLE MAIN BOARD (NTSC) VIDEO BLOCK (1/2)

作番 WORK No.

図番 DWG. No. C11-902703 C

Ikegami IKEGAMI TSUSHINKI CO., LTD.

8. PAL SUB-A BOARD (PAL only)

(1)General

This board processes the composite video signal from the MAIN BOARD, produces the luminance signal(Y) and the color difference signal(R-Y, G-Y and B-Y), and supplies them to the MAIN BOARD.

(2)Circuit Description

The composite video signal(VIDEO A,B or Y of Y/C) from the MAIN BOARD is amplified by IC1(HA11465A), Tr2 and Tr3, passes through the emitter followers of Tr4 and Tr5, and is inputted to the circuits of the chroma system and the luminance system.

1)Luminance Signal System

The signal passes through the sub carrier trap circuit, then its pulse characteristics is improved by C55, L12, C56 and L13. The signal is then delayed by the delay line and inputted to the aperture circuit in the MAIN BOARD.

2)Chroma Signal System

The signal is applied to the Pin ① of IC5(TA7347P) from the emitter of Tr4.
The chroma signal(C) of Y/C input is supplied from the CONNECTOR-A BOARD. Its level is adjusted by IC4(AN612), it is amplified by Tr15 and Tr16, and then applied to the Pin ③. The position of the VIDEO/Y/C switch on the front panel selects either the signal applied to the Pin ① or the Pin ③, and the selected signal is outputted, passes through the 4.43MHz band pass filter(PAL-M:3.58MHz), and is applied to IC3(μPD1365C3).
Functions of IC3

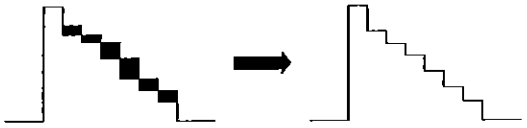
- ·Chroma control
- ·R-Y & B-Y demodulation
- ·Matrix of G-Y signal using the two signals above

The R-Y, G-Y and B-Y signals outputted from IC3 are applied to IC203(μPD4053BC) on the MAIN BOARD.

(3)Adjustment Procedure

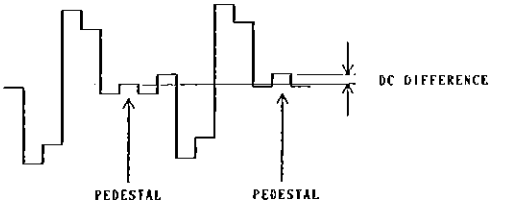
a.L1

① Input a color bar signal as the composite video signal.
② Set the VIDEO/Y/C switch to the VIDEO position.
③ Connect a probe to TP207 on the MAIN BOARD.
④ Adjust L1 so that the carrier leak is minimum.



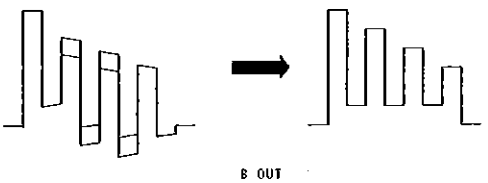
b.VR1(COLOR HOLD)

① Set the switch S1(AUTO/FORCED) on this board to the FORCED position.
② Set the SYNC INT/EXT switch on the operation section within the front panel to the EXT position.
③ Connect a probe to B OUT(CN208-5) on the MATRIX SUB BOARD.
④ Adjust VR1 so that color hold is kept while gradually reducing the level of video input signal.
⑤ After the completion of this adjustment, set S1 to the AUTO position and the SYNC INT/EXT switch to the INT position.



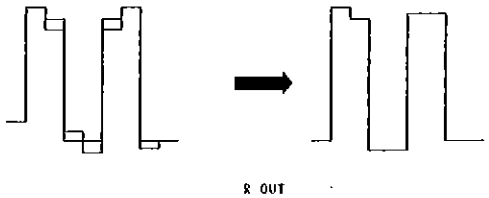
c.VR4(DC BALANCE)

① Connect a probe to TP204(R-Y OUT) on the MAIN BOARD.
② Adjust VR4 so that the level difference of the pedestal is eliminated.

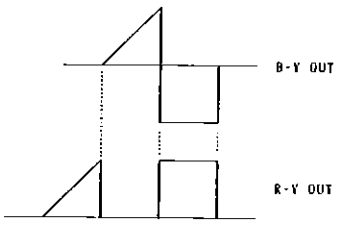


d.L7,L8(LINE CRAWLING)

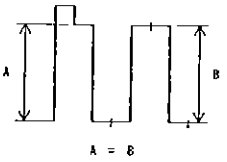
① Set VR2 and VR3 to the middle position.
② Connect a probe to R OUT(CN208-1) and B OUT (CN208-5) on the MATRIX SUB BOARD.
③ Adjust L7 and L8 for minimum line crawling.



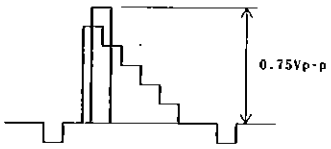
e.VR2(DL MATCH)
VR3(PHASE)
① Input a ANTI PAL signal.
② Connect a probe to TP204(R-Y OUT) and TP206(B-Y OUT).
③ Adjust VR2 and VR3 as shown in the figure.



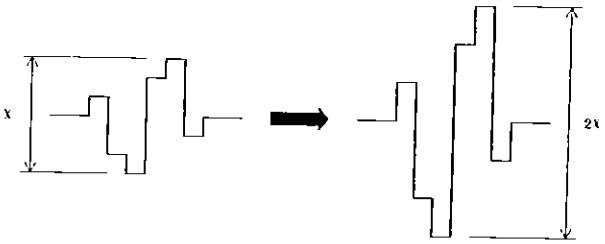
f.VR5(R-Y LEVEL)
① Input a color bar signal.
② Connect a probe to R OUT on the MATRIX SUB BOARD.
③ Adjust VR2 and VR3 so that the level of A is equal to that of B as shown in figure.

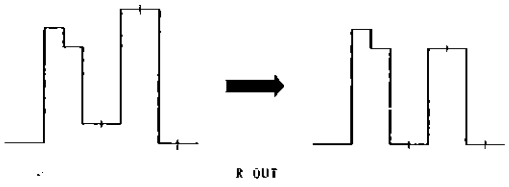


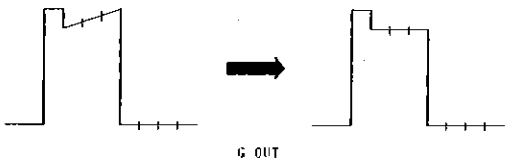
g.VR8(LEVEL)
① Set the CONTRAST control on the front panel to the MAX position.
② Connect a probe to Y OUT on the PAL SUB-A BOARD.
③ Adjust VR8 so that the level of the waveform is 0.75Vp-p.

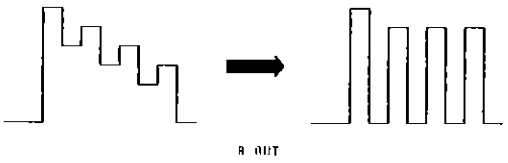


h.VR5(R-Y LEVEL)
VR6(G-Y LEVEL)
VR7(B-Y LEVEL)
① Connect a probe to TP204 on the MAIN BOARD.
② Set the waveform to an arbitrary oscilloscope value X.
③ Set the CHROMA control on the front panel to the MAX position.
④ Adjust VR5 so that the level becomes 2X.
⑤ Preset the CHROMA control.
⑥ Adjust the CHROMA PRESET control so that the level becomes X.
⑦ Adjust VR5, VR6 and VR7 so that the waveforms at R OUT(CN208-1),G OUT(CN208-3) and B OUT(CN208-5) are as shown in the figure below.



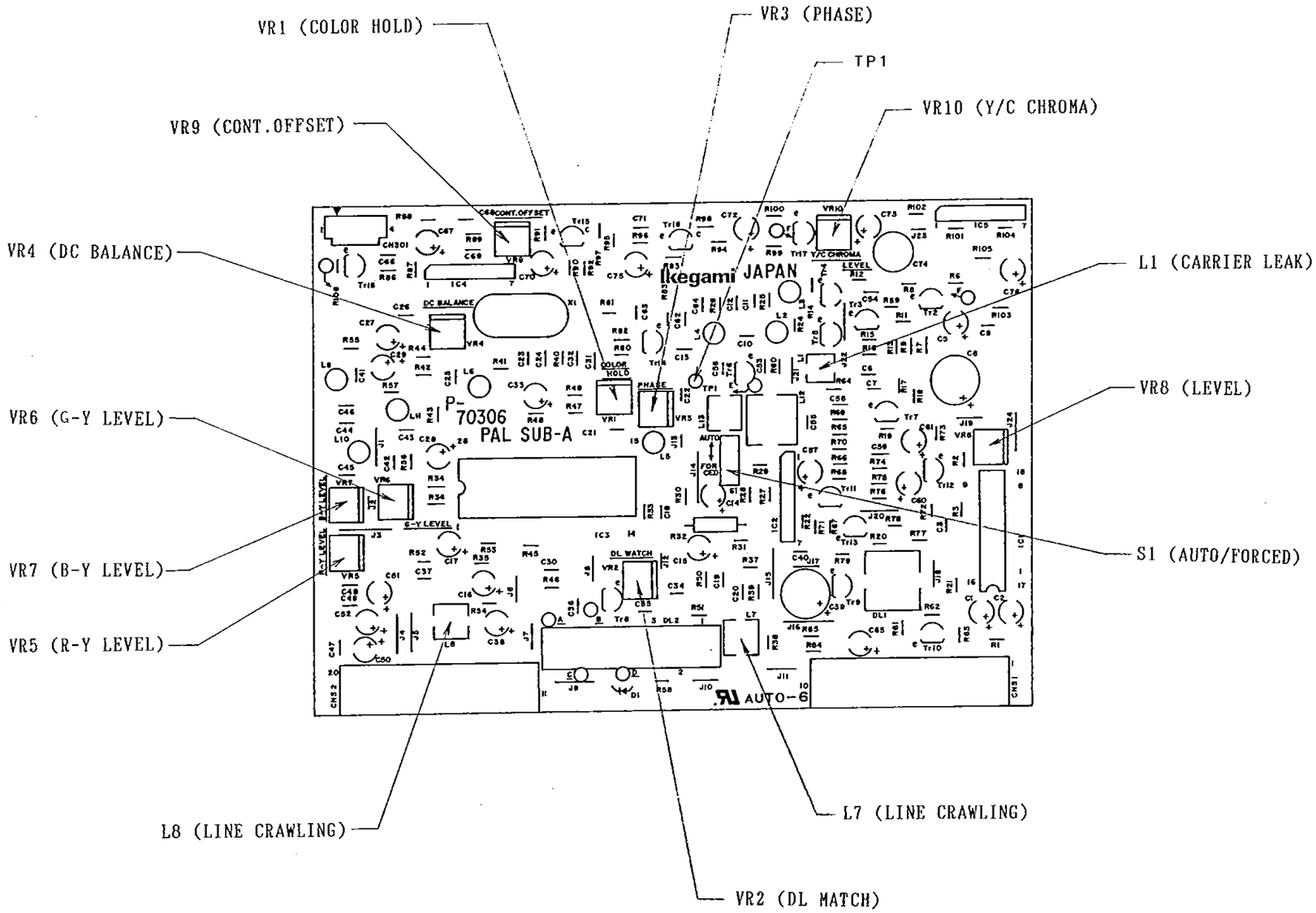




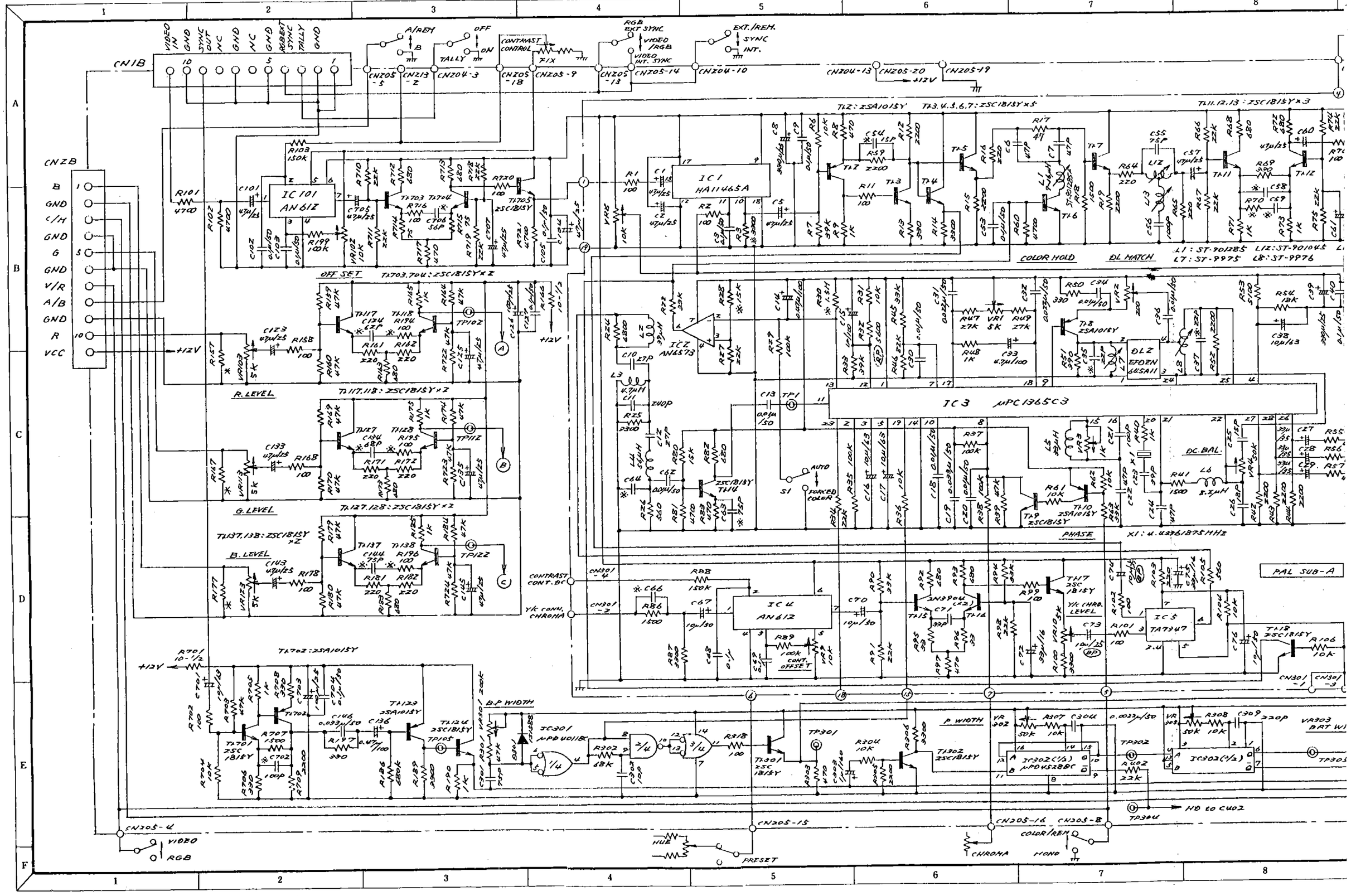


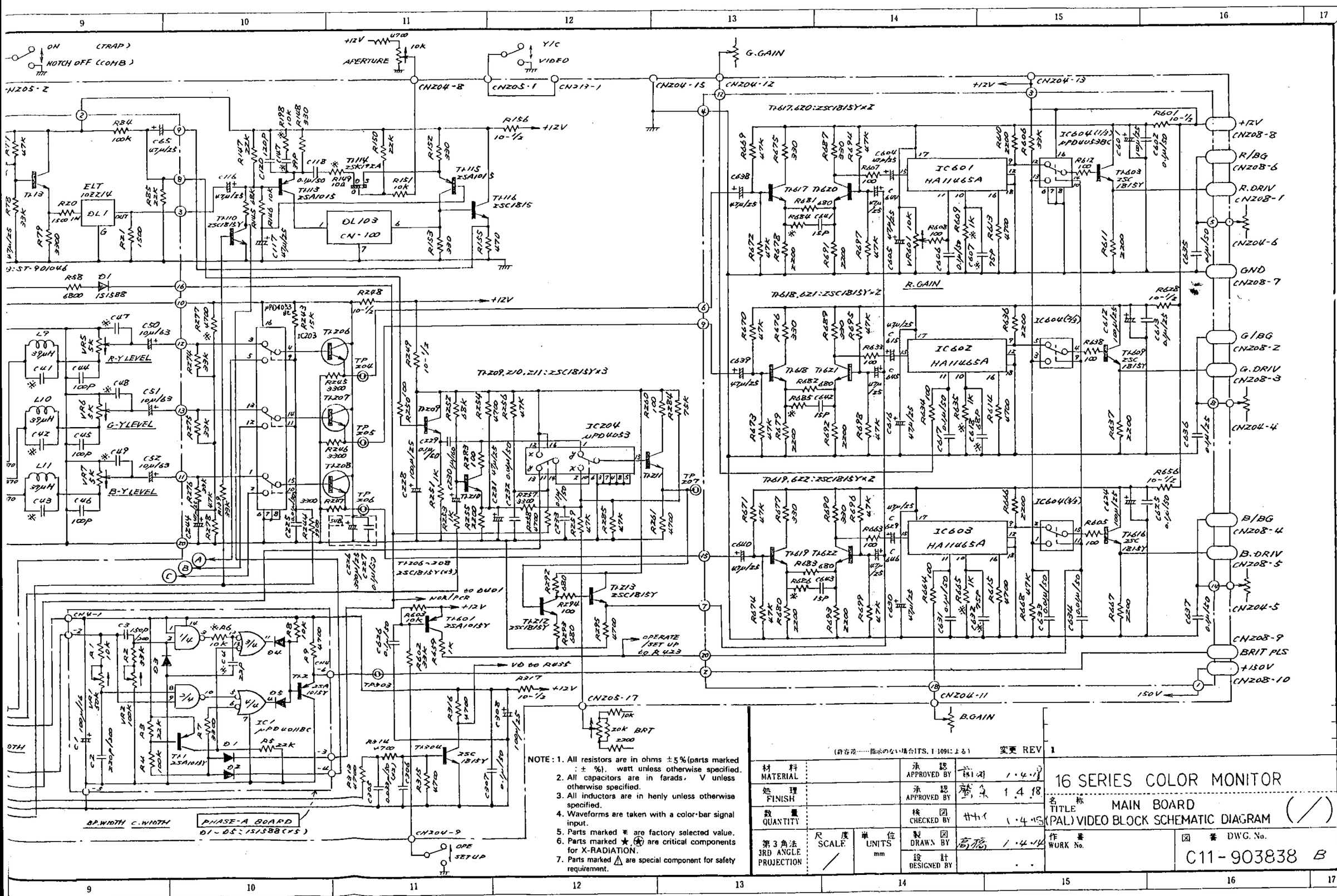
i.VR9(CONT OFFSET)
① Input a color bar signal as Y/C signal.
② Set the VIDEO/Y/C switch to the Y/C position.
③ Connect a probe to R OUT(CN208-1) on the MATRIX SUB BOARD.
④ Set the CONTRAST control to the MIN position.
⑤ Adjust VR9 so that no chroma component remain in the waveform.
⑥ Preset the CONTRAST control.

j.VR10(Y/C CHROMA)
① Connect a probe to R OUT.
② Adjust VR10 so that the chroma level of Y/C input signal is the same as that of VIDEO input signal.



TM14/20-16RP
PAL SUB-A BOARD
PARTS LOCATION
P-70306


CN1B
VIDEO IN
GND
SYNC OUT
NC
GND
NC
GND
REMOTE SYNC
TALLY
GND
A/REM
B
OFF
ON
TALLY
CONTRAST CONTROL
RGB EXT SYNC
VIDEO /RGB
VIDEO INT. SYNC
EXT./REM.
SYNC
INT.
CN205-5
CN213-2
CN204-3
CN205-18
CN205-9
CN205-13
CN205-14
CN204-10
CN204-13
CN205-20
+12V
CN205-19
CN2B
B
GND
C/H
GND
G
GND
V/R
A/B
GND
R
VCC
IC101 AN612
IC1 HA11465A
IC2 AN6573
IC3 μPC1365C3
IC4 AN612
IC5 TA7347
R.LEVEL
G.LEVEL
B.LEVEL
OFF SET
COLOR HOLD
DL MATCH
DC.BAL.
PHASE
PAL SUB-A
B.P WIDTH
P WIDTH
CONTRAST CONT. B-Y
Y/C CONN, CHROMA
Y/C CHRO. LEVEL
BRT WI
DLZ EFORN 6USA11
IC301 μPD4011BC
IC302(1/2) μPDW5288C
TP101
TP102
TP112
TP122
TP105
TP301
TP302
TP304
TP1
TP2
VR101 5K
VR102 10K
VR103 5K
VR123 5K
VR1 5K
VR2 10K
VR3 1K
VR301 200K
VR302 50K
VR303 50K
S1
AUTO
FORCED COLOR
HUE
PRESET
CHROMA
MONO
COLOR/REM
VIDEO
RGB
HD to CN02
CN205-4
CN205-15
CN205-16
CN205-8
CONTRAST CONT. B-Y
Y/C CONN, CHROMA
L1 : ST-90128S
L2 : ST-90104S
L7 : ST-9975
L8 : ST-9976
TR1,2 : 2SA1015Y
TR3,4,5,6,7 : 2SC1815Y×5
TR11,12,13 : 2SC1815Y×3
TR117,118 : 2SC1815Y×2
TR127,128 : 2SC1815Y×2
TR137,138 : 2SC1815Y×2
TR702 : 2SA1015Y
TR703,704 : 2SC1815Y×2
TR701 2SC1815Y
TR123 2SA1015Y
TR124 2SC1815Y
TR301 2SC1815Y
TR302 2SC1815Y
TR8 2SA1015Y
TR9 2SC1815Y
TR10 2SA1015Y
TR14 2SC1815Y
TR15 2SC1815Y
TR16 2SC1815Y
TR17 2SC1815Y
TR18 2SC1815Y
X1 : 4.433619MHz



NOTE :
1. All resistors are in ohms ±5%(parts marked : ± %). watt unless otherwise specified.
2. All capacitors are in farads, V unless otherwise specified.
3. All inductors are in henly unless otherwise specified.
4. Waveforms are taken with a color-bar signal input.
5. Parts marked * are factory selected value.
6. Parts marked ★ (Ⓚ) are critical components for X-RADIATION.
7. Parts marked ⚠ are special component for safety requirement.

(許容差……指示のない場合JTS. I 109による)　変更 REV 1

材料 MATERIAL		承認 APPROVED BY	藤川	1・4・1	16 SERIES COLOR MONITOR
処理 FINISH		承認 APPROVED BY	栗	1.4.18	名称 TITLE MAIN BOARD (PAL) VIDEO BLOCK SCHEMATIC DIAGRAM (/)
数量 QUANTITY		検図 CHECKED BY	井上	1・4・15	
第3角法 3RD ANGLE PROJECTION	尺度 SCALE / 単位 UNITS mm	製図 DRAWN BY	高橋	1・4・14	作番 WORK No. 図番 DWG. No. C11-903838 B
		設計 DESIGNED BY		・・	

Ikegami　IKEGAMI TSUSHINKI CO., LTD.

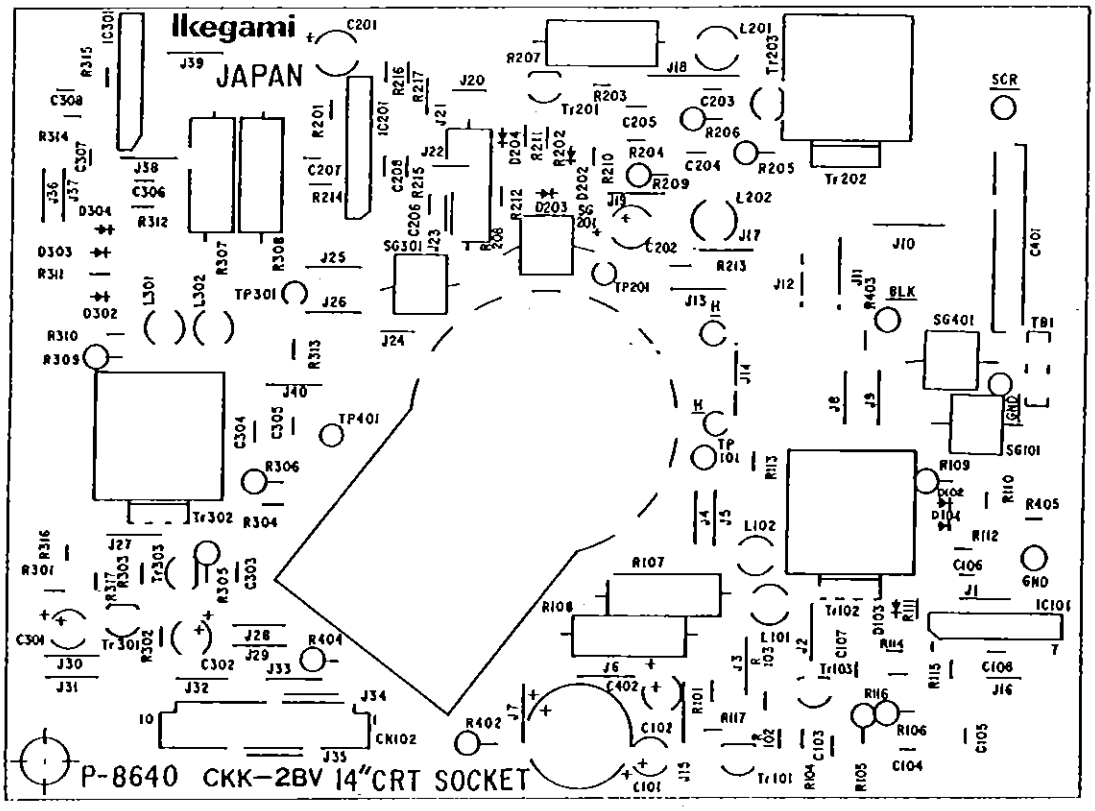
9. CRT SOCKET BOARD

(1)General

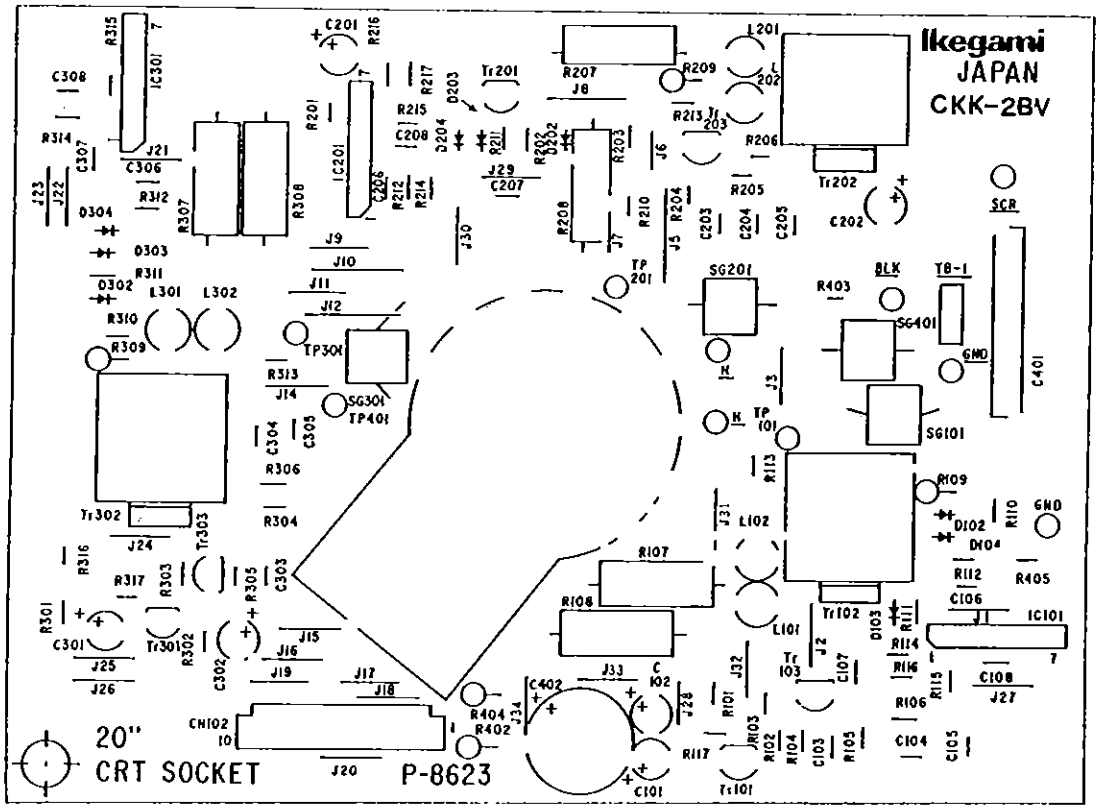
In this board, the R, G and B signals from the MATRIX SUB BOARD are amplified and then applied to the cathode of CRT.

(2)Circuit Description

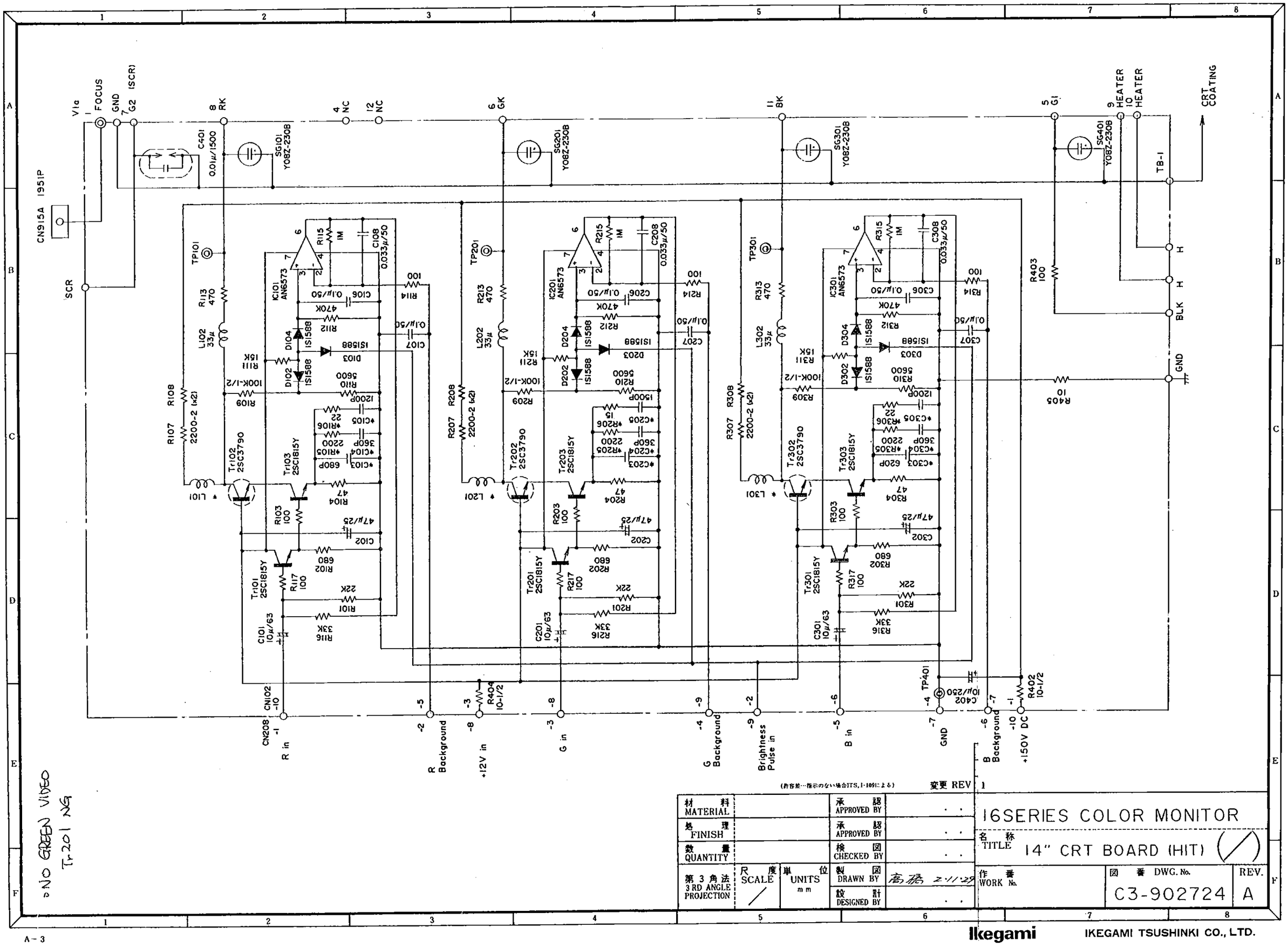
As the R, G and B circuits are identical, only the R circuit is described here.
(Only difference of 14" and 20" is pin numbers of CRT SOCKET.)
The signal fed into the Pin ⑩ of CN102 passes through the emitter follower of Tr101, is applied to the base of Tr103 by cascade-connection (Tr102 and Tr103), and its frequency characteristics is compensated and then it is outputted. This outputted signal is voltage-divided by R109 and R110, and applied to the cathode of D102.
D103 is cut off during the brightness pulse period only, and C106 is charged through D104, and then the signal is applied to the non-inversion input terminal of IC101.
ON the other hand, a background DC voltage is applied to the inversion input terminal, and IC101's output can be fed back to the base of Tr101 in order to stabilize the clamping voltage.



TM14-16R/RP
CRT SOCKET BOARD
PARTS LOCATION
P-8640



TM20-16R/RP
CRT SOCKET BOARD
PARTS LOCATION
P-8623



(許容差…指示のない場合JIS, J-109による)

変更 REV 1

材料 MATERIAL		承認 APPROVED BY		
処理 FINISH		承認 APPROVED BY		
数量 QUANTITY		検図 CHECKED BY		
第3角法 3RD ANGLE PROJECTION	尺度 SCALE / 単位 UNITS mm	製図 DRAWN BY	高橋 2/11/29	
		設計 DESIGNED BY		

16SERIES COLOR MONITOR

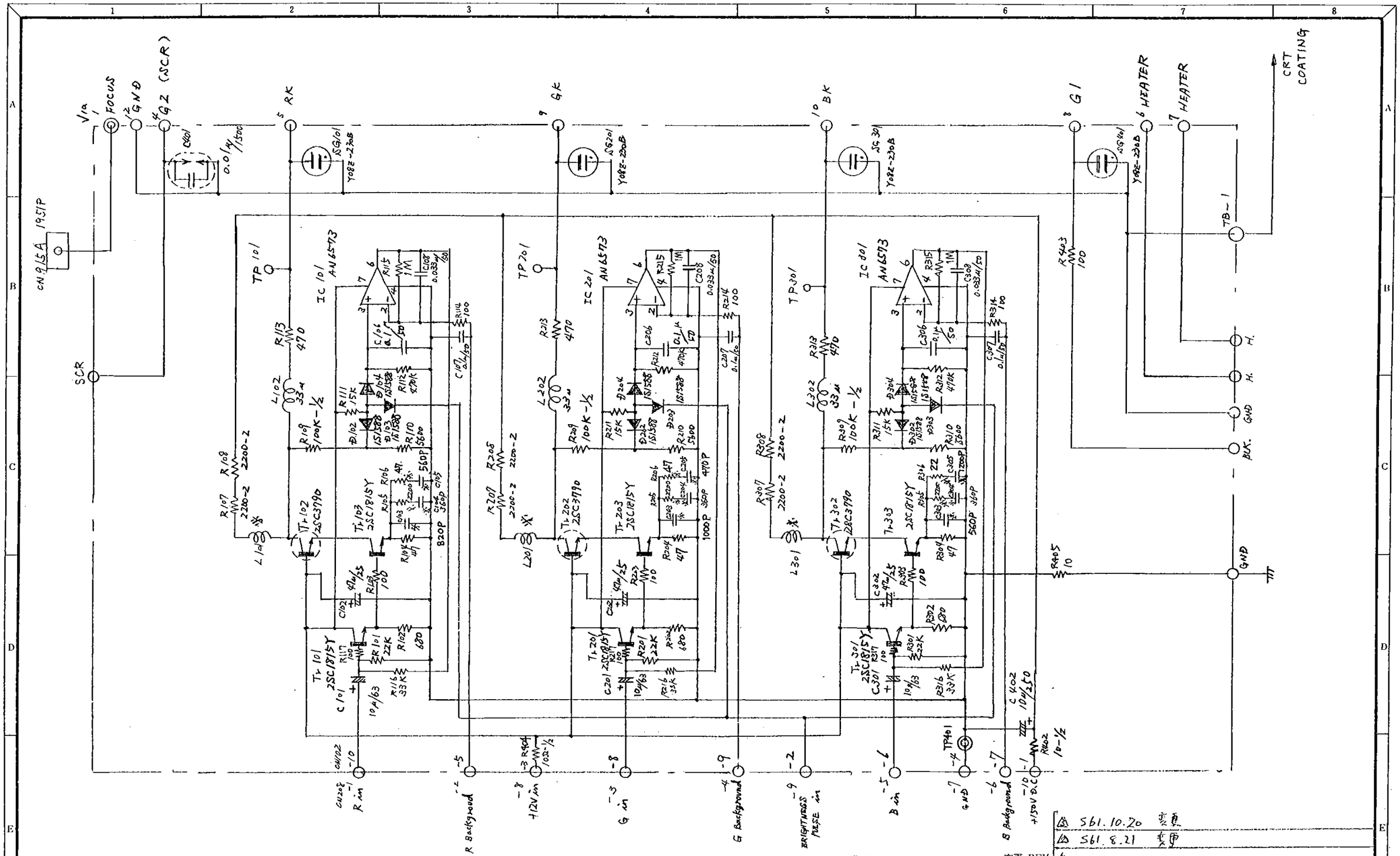
名称 TITLE 14" CRT BOARD (HIT)

作番 WORK No.

図番 DWG. No. C3-902724

REV. A

Ikegami IKEGAMI TSUSHINKI CO., LTD.



材料 MATERIAL			承認 APPROVED BY		
処理 FINISH			承認 APPROVED BY		
数量 QUANTITY			検図 CHECKED BY		
第3角法 3RD ANGLE PROJECTION	尺度 SCALE /	単位 UNITS mm	製図 DRAWN BY	A.Nagao	
			設計 DESIGNED BY		

(許容差一指示のない場合はTS1003による)

変更 REV

⚠ S61.10.20 変更
⚠ S61.8.21 変更
⚠

16 SERIES
COLOR MONITOR

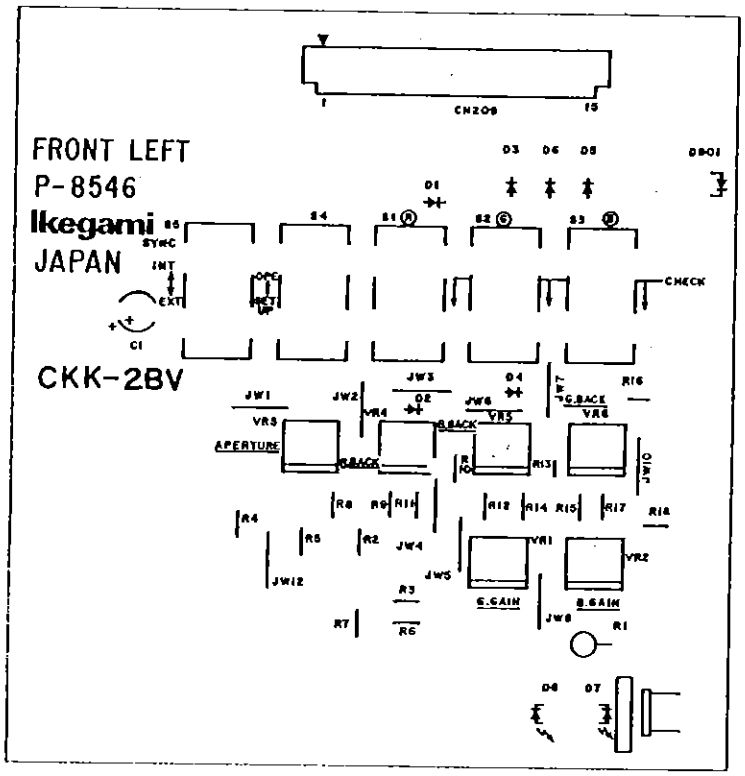
名称 TITLE 20" CRT BOARD (MEC) (/)

作番 WORK No.

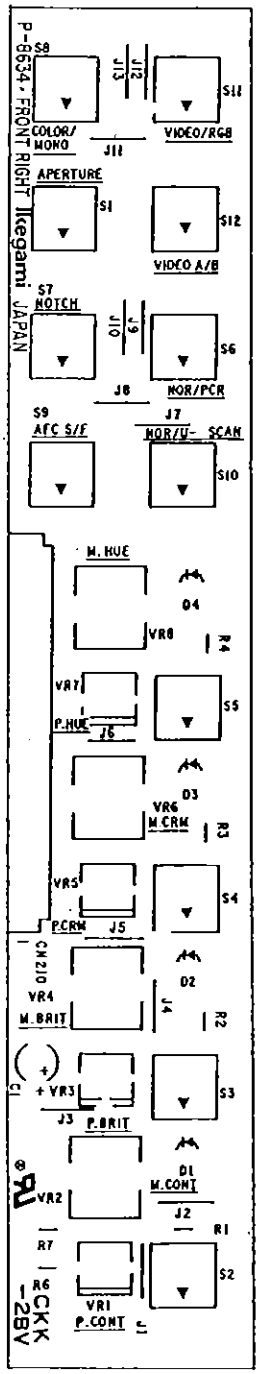
図番 DWG. No. C3-902705B

IKEGAMI TSUSHINKI CO.,LTD.

A-3



TM14/20-16R/RP
FRONT LEFT BOARD
PARTS LOCATION
P-8546



TM14/20-16R/RP
FRONT RIGHT BOARD
PARTS LOCATION
P-8634

M F D ---------- Manufacturer code

A L P	ALPS ELECTRIC CO.,LTD.	JAPAN
A M P	AMP,Ltd.	JAPAN
C O S	TOKYO COSMOS ELECTRIC CO.,LTD.	JAPAN
E M D	EMUDEN MUSEN KOGYO CO.,LTD.	JAPAN
F K D	Fukuda S.S	JAPAN
H I R	HIROSE ELECTRIC CO.,LTD.	JAPAN
H I T	Hitachi,Ltd.	JAPAN
I K E	Ikegami Tsushinki Co.,Ltd.	JAPAN
I W T	IWATSU SEIMITSU CO.,LTD.	JAPAN
K C K	KCK CO.,LTD.	JAPAN
K D K	KAWASAKI ELECTRIC WIRE CO.,LTD.	JAPAN
K I N	KINSEKI,LIMITED	JAPAN
K O A	KOA CORPORATION	JAPAN
L T L	LITTELFUSE	USA
M A T	Matsushita Electric Industrial Co.,Ltd.	JAPAN
M M M	SUMITOMO 3M CO.LTD	JAPAN
N C H	NIPPON CHEMI-CON CORPORATION	JAPAN
N E C	NEC CORPORATION	JAPAN
N K A	NIHON KAIHEIKI IND. CO.,LTD.	JAPAN
N M O	Nihon Molex	JAPAN
N O B	TEIKOKU TSUSHIN KOGYO CO.,LTD.	JAPAN
O K A	OKAYA ELECTRIC INDUSTRIES CO.,LTD.	JAPAN
R Y O	Ryosan Company,Limited	JAPAN
S C H	SCHUTER	SWITZERLAND
S C S	SAITO CORD MFG.CO.,LTD	JAPAN
S I N	SHINYEI KAISHA	JAPAN
S K K	Sinetsu Kagaku Kogyo Co.,Ltd.	JAPAN
S K N	SANKEN ELECTRIC CO.,LTD.	JAPAN
S K O	Sankosha	JAPAN
S O N	Sony Corporation.	JAPAN
S M K	SMK Corporation	JAPAN
S Y O	SANYO ELECTRIC CO.,LTD.	JAPAN
S W C	SHOWA ELECTRIC WIRE & CABLE CO.,LTD.	JAPAN
T D K	TDK Corporation	JAPAN
T O K	TOKAI COMMUNICATION INDUSTRY CO.,LTD.	JAPAN
T O S	TOSHIBA CORPORATION.	JAPAN
T Y O	TAIYO TSUSHIN KOGYO K.K.	JAPAN

16 SERIES COLOR MONITOR
MAIN CHASSIS COMMON

NO.	DISCRIPTION		MFD.	PARTS-CODE
<SWITCHES>				
S901	ESB-90702V		MAT	20-34323-00201
S902	ESB-8255R		MAT	
<CONNECTORS>				
CN918A	3183-0		AMP	20-51832-00100
CN918B	170048-2		AMP	
<OTHERS>				
	ST-901419B		HIR	20-66995-14192
	ST-901420D		HIR	20-66995-14204
	ST-901423B		HIR	20-66995-14232
	ST-901439		EMD	20-30995-14390
	NO.3484-1000	X 2	MMM	20-68082-00100
	1P-10	X 2	IWT	20-34244-00100
	ST-9686D-1	X 2	IKE	20-34995-96868

16 SERIES COLOR MONITOR
14" MAIN SHASSIS

NO.	DISCRIPTION	MFD.	PARTS-CODE
<CRT>			
V1	M34JLR11X09	HIT	20-72110-01901
<COIL>			
L901	ST-901424A	IKE	20-40985-14240

16 SERIES COLOR MONITOR
20" MAIN CHASSIS

NO.	DISCRIPTION	MFD.	PARTS-CODE
<CRT>			
V1	M48JFB05X01	MAT	20-72110-02220
<COIL>			
L901	ST-901467A	IKE	20-40985-14671

16 SERIES COLOR MONITOR
EUROPE MAIN CHASSIS

NO.	DISCRIPTION	MFD.	PARTS-CODE
<DIODE>			
D	1J4B1	TOS	20-03914-00200
<FUSE>			
F901	EAK 1.25A	LTL	20-53002-00305
	FEK031-1663	SCH	20-53504-00200
<TRANSFORMER>			
T	ST-901444A	IKE	20-40985-14441

16 SERIES COLOR MONITOR
USA MAIN CHASSIS

NO.	DISCRIPTION	MFD.	PARTS-CODE
<FUSE>			
F901	ASG3-3	FKD	20-53008-00300
	FEK031-1661	SCH	20-53504-00100

16 SERIES COLOR MONITOR
JPN MAIN CHASSIS

NO.	DISCRIPTION	MFD.	PARTS-CODE
<FUSE>			
F901	ASG3-3	FKD	20-53008-00300
	FEK031-1661	SCH	20-53504-00100

16 SERIES COLOR MONITOR
JPN ACCESSORY 1

NO.	DISCRIPTION	MFD.	PARTS-CODE
<CONNECTORS>			
	S-1608A	HIR	20-30391-00200
	P-1608A-C-20	HIR	20-30331-00100
<CABLE>			
	VFF0.75SQX2 2.5M GRAY	SCS	20-66604-02000

16 SERIES COLOR MONITOR
USA ACCESSORY 2

NO.	DISCRIPTION	MFD.	PARTS-CODE
<CONNECTORS>			
	S-1608A	HIR	20-30391-00200
	P-1608A-C-20	HIR	20-30331-00100
<CABLE>			
	KP-30.SJT/18AWG.KS-1	KDK	20-66603-00100

16 SERIES COLOR MONITOR
EUROPE ACCESSORY 3

NO.	DISCRIPTION	MFD.	PARTS-CODE
<CONNECTORS>			
	S-1608A	HIR	20-30391-00200
	P-1608A-C-20	HIR	20-30331-00100
<CABLE>			
	KP-4819D KS-16A GTCE	KDK	20-66603-00200

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*****************************
*  16 SERIES COLOR MONITOR  *
*     CONNECTOR BOARD       *
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NO.	DISCRIPTION	MFD.	PARTS-CODE
<INTEGRATED CIRCUITS>			
IC901	TA7347P	TOS	20-01571-01010
IC902	TA7347P	TOS	20-01571-01010
<RESISTORS>			
R901	ERDS2TJ 750 T	MAT	20-12108-75013
R902	ERDS2TJ 682 T	MAT	20-12108-68213
R903	ERDS2TJ 472 T	MAT	20-12108-47213
R904	ERDS2TJ 221 T	MAT	20-12108-22113
R905	ERDS2TJ 101 T	MAT	20-12108-10113
R906	ERDS2TJ 101 T	MAT	20-12108-10113
R911	ERDS2TJ 750 T	MAT	20-12108-75013
R912	ERDS2TJ 682 T	MAT	20-12108-68213
R913	ERDS2TJ 472 T	MAT	20-12108-47213
R914	ERDS2TJ 101 T	MAT	20-12108-10113
R921	ERDS2TJ 750 T	MAT	20-12108-75013
R922	ERDS2TJ 473 T	MAT	20-12108-47313
<CAPACITORS>			
C901	ECEA 1EKA 100B	MAT	20-20138-10625
C902	ECQ-V1H 104J22	MAT	20-22137-10450
C903	ECEA 1CKA 101B	MAT	20-20138-10716
C904	ECEA 1CKA 101B	MAT	20-20138-10716
C911	ECEA 1EKA 100B	MAT	20-20138-10625
C921	ECEA 1EKA 100B	MAT	20-20138-10625
<CONNECTORS>			
CN1A	ST-901422A	HIR	20-66995-14221
CN2A	ST-901422A	HIR	20-66995-14221
CN	ST-901438A	EHD	20-30995-14381

****
* 16 SERIES COLOR MONITOR *
* CONNECTOR-A BOARD *
****

NO.	DISCRIPTION	MFD.	PARTS-CODE
<INTEGRATED CIRCUITS>			
IC1	TA7348P	TOS	20-01571-01020
IC2	TA7348P	TOS	20-01571-01020
IC3	TA7347P	TOS	20-01571-01010
IC4	TA7347P	TOS	20-01571-01010
IC5	TA7347P	TOS	20-01571-01010
IC6	μPD4053BC (CMOS)	NEC	20-01784-23000
<TRANSISTORS>			
Tr1	2SC1815Y-TPE2	TOS	20-02824-05702
Tr2	2SC1815Y-TPE2	TOS	20-02824-05702
Tr3	2SC1815Y-TPE2	TOS	20-02824-05702
Tr4	2SA1015Y-TPE2	TOS	20-02822-05402
Tr5	2SA1015Y-TPE2	TOS	20-02822-05402
Tr6	2SA1015Y-TPE2	TOS	20-02822-05402
Tr7	2SA1015Y-TPE2	TOS	20-02822-05402
Tr8	2SA1015Y-TPE2	TOS	20-02822-05402
Tr9	2SA1015Y-TPE2	TOS	20-02822-05402
Tr10	2SA1015Y-TPE2	TOS	20-02822-05402
Tr11	2SA1015Y-TPE2	TOS	20-02822-05402
<DIODE>			
D1	1S1588-TPB2	TOS	20-03812-01201
<RESISTORS>			
R1	ERDS2TJ 750 T	MAT	20-12108-75013
R2	ERDS2TJ 101 T	MAT	20-12108-10113
R3	ERDS2TJ 750 T	MAT	20-12108-75013
R4	ERDS2TJ 101 T	MAT	20-12108-10113
R5	ERDS2TJ 101 T	MAT	20-12108-10113
R6	ERDS2TJ 103 T	MAT	20-12108-10313
R7	ERDS2TJ 103 T	MAT	20-12108-10313
R8	ERDS2TJ 221 T	MAT	20-12108-22113
R9	ERDS2TJ 333 T	MAT	20-12108-33313
R10	ERDS2TJ 750 T	MAT	20-12108-75013
R11	ERDS2TJ 750 T	MAT	20-12108-75013
R12	ERDS2TJ 101 T	MAT	20-12108-10113
R13	ERDS2TJ 683 T	MAT	20-12108-68313
R14	ERDS2TJ 473 T	MAT	20-12108-47313
R15	ERDS2TJ 222 T	MAT	20-12108-22213
R16	ERDS2TJ 750 T	MAT	20-12108-75013
R17	ERDS2TJ 473 T	MAT	20-12108-47313
R18	ERDS2TJ 101 T	MAT	20-12108-10113
R19	ERDS2TJ 101 T	MAT	20-12108-10113
R20	ERDS2TJ 103 T	MAT	20-12108-10313
R21	ERDS2TJ 103 T	MAT	20-12108-10313
R22	ERDS2TJ 333 T	MAT	20-12108-33313
R23	ERDS2TJ 750 T	MAT	20-12108-75013
R24	ERDS2TJ 153 T	MAT	20-12108-15313
R25	ERDS2TJ 101 T	MAT	20-12108-10113
R26	ERDS2TJ 333 T	MAT	20-12108-33313
R27	ERDS2TJ 152 T	MAT	20-12108-15213
R28	ERDS2TJ 104 T	MAT	20-12108-10413
R29	ERDS2TJ 101 T	MAT	20-12108-10113
R30	ERDS2TJ 681 T	MAT	20-12108-68113
R31	ERDS2TJ 681 T	MAT	20-12108-68113
R32	ERDS2TJ 471 T	MAT	20-12108-47113
R33	ERDS2TJ 102 T	MAT	20-12108-10213
R34	ERDS2TJ 152 T	MAT	20-12108-15213
R35	ERDS2TJ 333 T	MAT	20-12108-33313
R36	ERDS2TJ 152 T	MAT	20-12108-15213
R37	ERDS2TJ 153 T	MAT	20-12108-15313
R38	ERDS2TJ 100 T	MAT	20-12108-10013
R39	ERDS2TJ 151 T	MAT	20-12108-15113
R40	ERDS2TJ 101 T	MAT	20-12108-10113
R41	ERDS2TJ 153 T	MAT	20-12108-15313
R42	ERDS2TJ 152 T	MAT	20-12108-15213
R43	ERDS2TJ 101 T	MAT	20-12108-10113
R44	ERDS2TJ 333 T	MAT	20-12108-33313
R45	ERDS2TJ 750 T	MAT	20-12108-75013
R46	ERDS2TJ 681 T	MAT	20-12108-68113
R47	ERDS2TJ 102 T	MAT	20-12108-10213
R48	ERDS2TJ 681 T	MAT	20-12108-68113
R49	ERDS2TJ 681 T	MAT	20-12108-68113
R50	ERDS2TJ 102 T	MAT	20-12108-10213
R51	ERDS2TJ 152 T	MAT	20-12108-15213
R52	ERDS2TJ 152 T	MAT	20-12108-15213
R53	ERDS2TJ 153 T	MAT	20-12108-15313
R54	ERDS2TJ 333 T	MAT	20-12108-33313
R55	ERDS2TJ 101 T	MAT	20-12108-10113
R56	ERDS2TJ 750 T	MAT	20-12108-75013
R57	ERDS2TJ 153 T	MAT	20-12108-15313
R58	ERDS2TJ 152 T	MAT	20-12108-15213
R59	ERDS2TJ 101 T	MAT	20-12108-10113
R60	ERDS2TJ 333 T	MAT	20-12108-33313
R61	ERDS2TJ 101 T	MAT	20-12108-10113
R62	ERDS2TJ 681 T	MAT	20-12108-68113
R63	ERDS2TJ 681 T	MAT	20-12108-68113
R64	ERDS2TJ 681 T	MAT	20-12108-68113
R65	ERDS2TJ 471 T	MAT	20-12108-47113
R66	ERDS2TJ 102 T	MAT	20-12108-10213
R67	ERDS2TJ 152 T	MAT	20-12108-15213
R68	ERDS2TJ 153 T	MAT	20-12108-15313
R69	ERDS2TJ 152 T	MAT	20-12108-15213
R70	ERDS2TJ 333 T	MAT	20-12108-33313
R71	ERDS2TJ 101 T	MAT	20-12108-10113
R72	ERDS2TJ 153 T	MAT	20-12108-15313
VR1	GF06UT2 5KΩ	COS	20-15194-50200
VR2	GF06UT2 5KΩ	COS	20-15194-50200
VR3	GF06UT2 5KΩ	COS	20-15194-50200
VR4	GF06UT2 10KΩ	COS	20-15194-10300
VR5	GF06UT2 5KΩ	COS	20-15194-50200
VR6	GF06UT2 5KΩ	COS	20-15194-50200
VR7	GF06UT2 10KΩ	COS	20-15194-10300
VR8	GF06UT2 5KΩ	COS	20-15194-50200
VR9	GF06UT2 5KΩ	COS	20-15194-50200
VR10	GF06UT2 5KΩ	COS	20-15194-50200
<CAPACITORS>			
C1	ECEA 1EK 100B	MAT	20-20128-10616
C2	ECEA 1EK 100B	MAT	20-20128-10616
C3	ECEA 1EK 100B	MAT	20-20128-10616
C4	ECEA 1CKA 470B	MAT	20-20129-47616
C5	ECEA 1EK 100B	MAT	20-20128-10616
C6	ECEA 1EK 100B	MAT	20-20128-10616
C7	ECEA 1CK 101B	MAT	20-20128-10716
C8	ECEA 1CK 101B	MAT	20-20128-10716
C9	ECEA 1CKA 470B	MAT	20-20129-47616
C10	ECEA 1CKA 470B	MAT	20-20129-47616
C11	ECEA 1EK 100B	MAT	20-20128-10616
C12	ECEA 1CKA 470B	MAT	20-20129-47616
C13	ECEA 1CKA 470B	MAT	20-20129-47616
C14	ECEA 1CKA 470B	MAT	20-20129-47616
C15	ECEA 1CK 101B	MAT	20-20128-10716
C16	ECEA 1CKA 470B	MAT	20-20129-47616
C17	ECEA 1CKA 470B	MAT	20-20129-47616
C18	ECEA 1CK 101B	MAT	20-20128-10716
C19	ECEA 1EK 100B	MAT	20-20128-10616
C20	ECEA 1CKA 470B	MAT	20-20129-47616
C21	ECEA 1CKA 470B	MAT	20-20129-47616
C22	ECEA 1CKA 470B	MAT	20-20129-47616
C23	ECEA 1CKA 470B	MAT	20-20129-47616
C24	ECEA 1EK 100B	MAT	20-20128-10616
C25	ECEA 1CKA 470B	MAT	20-20129-47616
C26	ECEA 1CKA 470B	MAT	20-20129-47616
C27	ECEA 1CKA 101B	MAT	20-20138-10716
<CONNECTOR>			
CN303	DF1-2P-2.5DSA	HIR	20-30079-00200
<SWITCH>			
S5	J-S5029	SHK	20-36002-03400
<OTHERS>			
CN1A	ST-901422A	HIR	20-66995-14221
CN2A	ST-901422A	HIR	20-66995-14221
CN	ST-901860B	HIR	
CN	ST-901885	EMD	20-30995-18850
<TEST POINTS>			
TP1	TBPS	IKE	
TP2	TBPS	IKE	
TP3	TBPS	IKE	
TP4	TBPS	IKE	

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NO.	DISCRIPTION	MFD.	PARTS-CODE
<INTEGRATED CIRCUITS>			
IC101	AN612	MAT	20-01004-00320
IC203	μ PD4053BC (CMOS)	NEC	20-01784-23000
IC204	μ PD4053BC (CMOS)	NEC	20-01784-23000
IC301	μ PD4011BC (CMOS)	NEC	20-01784-20400
IC302	μ PD4528BC (CMOS)	NEC	20-01784-27600
IC401	LA7850	SYO	20-01333-00700
IC402	μ PD4528BC (CMOS)	NEC	20-01784-27600
IC403	μ PC4558C	NEC	20-01783-02100
IC501	STR53041	SKN	20-01550-00500
IC502	AN7812F	MAT	20-01004-07806
<TRANSISTORS>			
Tr110	2SC1815Y-TPE2	TOS	20-02824-05702
Tr113	2SA1015Y-TPE2	TOS	20-02822-05402
Tr114	2SK192A-GR (FET)	TOS	20-02828-01181
Tr115	2SA1015Y-TPE2	TOS	20-02822-05402
Tr116	2SC1815Y-TPE2	TOS	20-02824-05702
Tr117	2SC1815Y-TPE2	TOS	20-02824-05702
Tr118	2SC1815Y-TPE2	TOS	20-02824-05702
Tr123	2SA1015Y-TPE2	TOS	20-02822-05402
Tr124	2SC1815Y-TPE2	TOS	20-02824-05702
Tr127	2SC1815Y-TPE2	TOS	20-02824-05702
Tr128	2SC1815Y-TPE2	TOS	20-02824-05702
Tr137	2SC1815Y-TPE2	TOS	20-02824-05702
Tr138	2SC1815Y-TPE2	TOS	20-02824-05702
Tr206	2SC1815Y-TPE2	TOS	20-02824-05702
Tr207	2SC1815Y-TPE2	TOS	20-02824-05702
Tr208	2SC1815Y-TPE2	TOS	20-02824-05702
Tr209	2SC1815Y-TPE2	TOS	20-02824-05702
Tr210	2SC1815Y-TPE2	TOS	20-02824-05702
Tr211	2SC1815Y-TPE2	TOS	20-02824-05702
Tr212	2SC1815Y-TPE2	TOS	20-02824-05702
Tr213	2SC1815Y-TPE2	TOS	20-02824-05702
Tr301	2SC1815Y-TPE2	TOS	20-02824-05702
Tr302	2SC1815Y-TPE2	TOS	20-02824-05702
Tr304	2SC1815Y-TPE2	TOS	20-02824-05702
Tr401	2SC1815Y-TPE2	TOS	20-02824-05702
Tr402	2SA1015Y-TPE2	TOS	20-02822-05402
Tr403	2SC1815Y-TPE2	TOS	20-02824-05702
Tr404	2SC1815Y-TPE2	TOS	20-02824-05702
Tr405	2SC1815Y-TPE2	TOS	20-02824-05702
Tr406	2SD1016Y	TOS	20-02823-01460
Tr407	2SD1407Y	TOS	20-02825-04055
Tr408	2SD1138D	HIT	20-02825-03302
Tr409	2SD1407Y	TOS	20-02825-04055
Tr410	2SD1407Y	TOS	20-02825-04055
Tr411	2SC1514	HIT	20-02824-04945
Tr412	2SC1514	HIT	20-02824-04945
Tr413	2SC1815Y-TPE2	TOS	20-02824-05702
Tr414	2SC2333K	NEC	20-02824-07001
Tr415	2SD1652	SYO	20-02825-04300
Tr417	2SD1407Y	TOS	20-02825-04055
Tr420	2SC1514	HIT	20-02824-04945
Tr501	2SC1514	HIT	20-02824-04945
Tr502	2SC2298B	HIT	20-02824-06880
Tr601	2SA1015Y-TPE2	TOS	20-02822-05402
Tr701	2SC1815Y-TPE2	TOS	20-02824-05702
Tr702	2SA1015Y-TPE2	TOS	20-02822-05402
Tr703	2SC1815Y-TPE2	TOS	20-02824-05702
Tr704	2SC1815Y-TPE2	TOS	20-02824-05702
Tr705	2SC1815Y-TPE2	TOS	20-02824-05702
Tr801	2SD1652	SYO	20-02825-04300
Tr802	2SB649AC	HIT	20-02823-00501
Tr803	2SJ76/77/78/79 (MOSFET)	HIT	
<DIODES>			
D301	1S1588-TPB2	TOS	20-03812-01201
D401	1S1588-TPB2	TOS	20-03812-01201
D402	1S1588-TPB2	TOS	20-03812-01201
D403	1S1588-TPB2	TOS	20-03812-01201
D404	DFH10TG	SYO	20-03093-00200
D405	1S1588-TPB2	TOS	20-03812-01201
D406	1S1588-TPB2	TOS	20-03812-01201
D407	DFH10TG	SYO	20-03093-00200
D408	RD7.5EB1	NEC	20-03513-01905
D409	1S1588-TPB2	TOS	20-03812-01201
D410	1S1588-TPB2	TOS	20-03812-01201
D411	1S1588-TPB2	TOS	20-03812-0120
D412	1S1588-TPB2	TOS	20-03812-0120
D413	1S1588-TPB2	TOS	20-03812-0120
D414	1S1588-TPB2	TOS	20-03812-0120
D415	1S1588-TPB2	TOS	20-03812-0120
D416	1S1588-TPB2	TOS	20-03812-0120
D417	DFH10TG	SYO	20-03093-0020
D418	RU4D	SKN	20-03518-0010
D419	DED30TG	SYO	20-03093-0040
D421	DFH10TG	SYO	20-03093-0020
D422	DFH10TG	SYO	20-03093-0020
D423	DFH10TG	SYO	20-03093-0020
D424	DFC15TR	SYO	20-03093-0030
D425	DFH10TG	SYO	20-03093-0020
D426	DFC15TR	SYO	20-03093-0030
D427	DFC15TR	SYO	20-03093-0030
D430	1S1588-TPB2	TOS	20-03812-0120
D431	DFH10TG	SYO	20-03093-0020
D432	1S1588-TPB2	TOS	20-03812-0120
D433	RD24EB1	NEC	20-03513-0320
D434	1S1588-TPB2	TOS	20-03812-0120
D435	1S1588-TPB2	TOS	20-03812-0120
D436	RD12EB1	NEC	20-03513-0250
D437	RD10EB1	NEC	20-03513-0230
D501	DFH10TG	SYO	20-03093-0020
D502	10J4B41	TOS	20-03916-0050
D503	DFC15TR	SYO	20-03093-0030
D504	DFH10TG	SYO	20-03093-0020
D505	DFH10TG	SYO	20-03093-0020
D506	DFC15TE	SYO	20-03093-0030
D507	DED30TG	SYO	20-03093-0040
D508	FMU36S	SKN	20-03157-0110
D509	DFC15TR	SYO	20-03093-0030
D510	1S1588-TPB2	TOS	20-03812-0120
D511	DFH10TG	SYO	20-03093-0020
D801	DFH10TG	SYO	20-03093-0020
D802	DFH10TG	SYO	20-03093-0020
<RESISTORS>			
R101	ERDS2TJ 472 T	MAT	20-12108-4721
R102	ERDS2TJ 472 T	MAT	20-12108-4721
R103	ERDS2TJ 154 T	MAT	20-12108-1541
R139	ERDS2TJ 333 T	MAT	20-12108-3331
R145	ERDS2TJ 683 T	MAT	20-12108-6831
R146	ERDS2TJ 103 T	MAT	20-12108-1031
R147	ERDS2TJ 223 T	MAT	20-12108-2231
R148	ERDS2TJ 331 T	MAT	20-12108-3311
R149	ERDS2TJ 100 T	MAT	20-12108-1001
R150	ERDS2TJ 223 T	MAT	20-12108-2231
R151	ERDS2TJ 103 T	MAT	20-12108-1031
R152	ERDS2TJ 331 T	MAT	20-12108-3311
R153	ERDS2TJ 331 T	MAT	20-12108-3311
R155	ERDS2TJ 471 T	MAT	20-12108-4711
R156	ERDS1TJ 100 T	MAT	20-12109-1002
R157	ERDS2TJ 301 T (NTSC)	MAT	20-12108-3011
	not used (PAL)		
R158	ERDS2TJ 101 T	MAT	20-12108-1011
R159	ERDS2TJ 473 T	MAT	20-12108-4731
R160	ERDS2TJ 473 T	MAT	20-12108-4731
R161	ERDS2TJ 221 T	MAT	20-12108-2211
R162	ERDS2TJ 221 T	MAT	20-12108-2211
R163	ERDS2TJ 681 T	MAT	20-12108-6811
R164	ERDS2TJ 473 T	MAT	20-12108-4731
R165	ERDS2TJ 102 T	MAT	20-12108-1021
R166	ERDS1TJ 100 T	MAT	20-12109-1002
R167	ERDS2TJ 301 T (NTSC)	MAT	20-12108-3011
	not used (PAL)		
R168	ERDS2TJ 101 T	MAT	20-12108-1011
R169	ERDS2TJ 473 T	MAT	20-12108-4731
R170	ERDS2TJ 473 T	MAT	20-12108-4731
R171	ERDS2TJ 221 T	MAT	20-12108-2211
R172	ERDS2TJ 221 T	MAT	20-12108-2211
R173	ERDS2TJ 681 T	MAT	20-12108-6811
R174	ERDS2TJ 473 T	MAT	20-12108-4731
R175	ERDS2TJ 102 T	MAT	20-12108-1021
R177	ERDS2TJ 301 T (NTSC)	MAT	20-12108-3011
	not used (PAL)		
R178	ERDS2TJ 101 T	MAT	20-12108-1011
R179	ERDS2TJ 473 T	MAT	20-12108-4731
R180	ERDS2TJ 473 T	MAT	20-12108-4731
R181	ERDS2TJ 221 T	MAT	20-12108-2211

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NO.	DISCRIPTION	MFD.	PARTS-CODE
R182	ERDS2TJ 221 T	MAT	20-12108-22113
R183	ERDS2TJ 681 T	MAT	20-12108-68113
R184	ERDS2TJ 473 T	MAT	20-12108-47313
R185	ERDS2TJ 102 T	MAT	20-12108-10213
R186	ERDS2TJ 684 T	MAT	20-12108-68413
R189	ERDS2TJ 332 T	MAT	20-12108-33213
R190	ERDS2TJ 102 T	MAT	20-12108-10213
R194	ERDS2TJ 101 T	MAT	20-12108-10113
R195	ERDS2TJ 101 T	MAT	20-12108-10113
R196	ERDS2TJ 101 T	MAT	20-12108-10113
R197	ERDS2TJ 331 T	MAT	20-12108-33113
R198	ERDS2TJ 103 T	MAT	20-12108-10313
R199	ERDS2TJ 104 T	MAT	20-12108-10413
R205	ERDS2TJ 102 T	MAT	20-12108-10213
R243	ERDS2TJ 153 T	MAT	20-12108-15313
R244	ERDS2TJ 332 T	MAT	20-12108-33213
R245	ERDS2TJ 332 T	MAT	20-12108-33213
R246	ERDS2TJ 332 T	MAT	20-12108-33213
R247	ERDS2TJ 332 T	MAT	20-12108-33213
R248	ERDS1TJ 100 T	MAT	20-12109-10025
R249	ERDS1TJ 100 T	MAT	20-12109-10025
R250	ERDS2TJ 101 T	MAT	20-12108-10113
R251	ERDS2TJ 102 T	MAT	20-12108-10213
R252	ERDS2TJ 683 T	MAT	20-12108-68313
R253	ERDS2TJ 102 T	MAT	20-12108-10213
R254	ERDS2TJ 472 T	MAT	20-12108-47213
R255	ERDS2TJ 222 T	MAT	20-12108-22213
R256	ERDS2TJ 473 T	MAT	20-12108-47313
R257	ERDS2TJ 332 T	MAT	20-12108-33213
R258	ERDS2TJ 472 T	MAT	20-12108-47213
R259	ERDS2TJ 473 T	MAT	20-12108-47313
R260	ERDS2TJ 101 T	MAT	20-12108-10113
R261	ERDS2TJ 472 T	MAT	20-12108-47213
R274	ERDS2TJ 333 T	MAT	20-12108-33313
R275	ERDS2TJ 333 T	MAT	20-12108-33313
R276	ERDS2TJ 333 T	MAT	20-12108-33313
R277	ERDS2TJ 472 T	MAT	20-12108-47213
R278	ERDS2TJ 473 T	MAT	20-12108-47313
R283	ERDS2TJ 101 T	MAT	20-12108-10113
R284	ERDS2TJ 753 T	MAT	20-12108-75313
R285	ERDS2TJ 473 T	MAT	20-12108-47313
R292	ERDS2TJ 681 T	MAT	20-12108-68113
R293	ERDS2TJ 681 T	MAT	20-12108-68113
R294	ERDS2TJ 101 T	MAT	20-12108-10113
R295	ERDS2TJ 472 T	MAT	20-12108-47213
R301	ERDS2TJ 473 T	MAT	20-12108-47313
R302	ERDS2TJ 683 T	MAT	20-12108-68313
R303	ERDS2TJ 471 T	MAT	20-12108-47113
R304	ERDS2TJ 103 T	MAT	20-12108-10313
R305	ERDS2TJ 222 T	MAT	20-12108-22213
R306	ERDS2TJ 332 T	MAT	20-12108-33213
R307	ERDS2TJ 103 T	MAT	20-12108-10313
R308	ERDS2TJ 103 T	MAT	20-12108-10313
R313	ERDS2TJ 472 T	MAT	20-12108-47213
R314	ERDS2TJ 472 T	MAT	20-12108-47213
R315	ERDS2TJ 472 T	MAT	20-12108-47213
R316	ERDS2TJ 472 T	MAT	20-12108-47213
R317	ERDS1TJ 100 T	MAT	20-12109-10025
R318	ERDS2TJ 101 T	MAT	20-12108-10113
R401	ERDS1TJ 100 T	MAT	20-12109-10025
R402	ERDS2TJ 223 T	MAT	20-12108-22313
R403	ERDS2TJ 473 T	MAT	20-12108-47313
R404	ERDS2TJ 223 T	MAT	20-12108-22313
R405	ERDS2TJ 103 T	MAT	20-12108-10313
R406	ERDS2TJ 333 T	MAT	20-12108-33313
R407	ERDS2TJ 102 T	MAT	20-12108-10213
R408	ERDS2TJ 223 T	MAT	20-12108-22313
R409	ERDS2TJ 223 T	MAT	20-12108-22313
R410	ERDS2TJ 333 T	MAT	20-12108-33313
R411	ERDS2TJ 473 T	MAT	20-12108-47313
R412	ERDS2TJ 153 T	MAT	20-12108-15313
R413	ERDS2TJ 472 T	MAT	20-12108-47213
R414	ERDS2TJ 333 T	MAT	20-12108-33313
R415	ERDS2TJ 103 T	MAT	20-12108-10313
R416	ERDS2TJ 102 T	MAT	20-12108-10213
R417	ERDS2TJ 153 T	MAT	20-12108-15313
R418	ERDS2TJ 221 T	MAT	20-12108-22113
R419	ERDS2TJ 332 T	MAT	20-12108-33213
R420	ERDS2TJ 103 T	MAT	20-12108-10313
R421	ERDS1TJ 100 T	MAT	20-12109-10025
R422	ERDS2TJ 153 T	MAT	20-12108-15313
R423	ERDS2TJ 223 T	MAT	20-12108-22313
R424	ERDS2TJ 224 T	MAT	20-12108-22413
R425	ERDS2TJ 104 T	MAT	20-12108-10413
R426	ERDS2TJ 333 T	MAT	20-12108-33313
R427	ERDS2TJ 683 T	MAT	20-12108-68313
R428	ERDS2TJ 681 T	MAT	20-12108-68113
R429	ERDS2TJ 223 T	MAT	20-12108-22313
R430	ERDS2TJ 153 T	MAT	20-12108-15313
R431	ERDS2TJ 332 T	MAT	20-12108-33213
R432	ERDS2TJ 223 T	MAT	20-12108-22313
R433	ERDS2TJ 472 T	MAT	20-12108-47213
R434	ERDS2TJ 331 T	MAT	20-12108-33113
R435	ERDS2TJ 223 T	MAT	20-12108-22313
R436	ERDS2TJ 104 T	MAT	20-12108-10413
R438	ERDS2TJ 103 T	MAT	20-12108-10313
R439	ERDS2TJ 104 T	MAT	20-12108-10413
R440	ERDS2TJ 104 T	MAT	20-12108-10413
R441	ERDS2TJ 333 T	MAT	20-12108-33313
R443	ERDS2TJ 221 T	MAT	20-12108-22113
R444	ERX-1ANJ 5R6	MAT	20-11002-05633
R445	ERDS2TJ 103 T	MAT	20-12108-10313
R446	ERG-2ANJ 681 H	MAT	20-11006-68143
R447	ERX-2ANJ 2R2 H	MAT	20-11003-02243
R448	ERDS1TJ 152 T	MAT	20-12109-15225
R449	ERDS1TJ 152 T	MAT	20-12109-15225
R450	ERX-2ANJ 2R2 H	MAT	20-11003-02243
R451	ERDS2TJ 152 T	MAT	20-12108-15213
R452	ERDS2TJ 103 T	MAT	20-12108-10313
R453	ERDS2TJ 153 T	MAT	20-12108-15313
R454	ERDS2TJ 471 T	MAT	20-12108-47113
R455	ERG-2ANJ 471 H	MAT	20-11006-47143
R456	ERDS2TJ 153 T	MAT	20-12108-15313
R457	ERDS2TJ 102 T	MAT	20-12108-10213
R458	ERDS1TJ 472 T	MAT	20-12109-47225
R459	ERDS2TJ 333 T	MAT	20-12108-33313
R460	ERDS2TJ 473 T	MAT	20-12108-47313
R461	ERDS2TJ 474 T	MAT	20-12108-47413
R462	ERDS2TJ 103 T	MAT	20-12108-10313
R463	ERDS2TJ 103 T	MAT	20-12108-10313
R464	ERDS2TJ 102 T	MAT	20-12108-10213
R465	ERG-2ANJ 473 H	MAT	20-11006-47343
R466	ERG-2ANJ 471 H	MAT	20-11006-47143
R467	ERG-2ANJ 471 H	MAT	20-11006-47143
R468	ERX-2ANJ 1R0 H	MAT	20-11003-01043
R469	ERDS2TJ 472 T	MAT	20-12108-47213
R470	ERDS2TJ 103 T	MAT	20-12108-10313
R471	ERDS2TJ 103 T	MAT	20-12108-10313
R472	ERDS2TJ 473 T	MAT	20-12108-47313
R473	ERDS2TJ 472 T	MAT	20-12108-47213
R476	ERDS2TJ 333 T	MAT	20-12108-33313
R478	ERDS2TJ 152 T	MAT	20-12108-15213
R479	ERDS1TJ 104 T	MAT	20-12109-10425
R481	ERDS2TJ 334 T	MAT	20-12108-33413
R482	ERG-2ANJ 331 H	MAT	20-11006-33143
R483	ERG-2ANJ 683 H	MAT	20-11006-68343
R484	ERX-2ANJ 2R2 H	MAT	20-11003-02243
R485	SPR3 510KΩ J	KOA	20-14453-51453
R486	SPR3 510KΩ J	KOA	20-14453-51453
R487	ERDS2TJ 331 T	MAT	20-12108-33113
R490	ERDS2TJ 152 T	MAT	20-12108-15213
R491	ERDS2TJ 333 T	MAT	20-12108-33313
R492	ERDS1TJ 100 T	MAT	20-12109-10025
R493	ERDS1TJ 100 T	MAT	20-12109-10025
R494	ERDS1TJ 472 T	MAT	20-12109-47225
R496	ERG-1ANJ 333	MAT	20-11005-33333
R497	ERDS2TJ 222 T	MAT	20-12108-22213
R498	ERDS2TJ 332 T	MAT	20-12108-33213
R499	ERDS2TJ 100 T	MAT	20-12108-10013
R501	ERG-2ANJ 223 H	MAT	20-11006-22343
R502	ERG-2ANJ 223 H	MAT	20-11006-22343
R503	ERG-2ANJ 104 H	MAT	20-11006-10443
R504	ERDS1TJ 151 T	MAT	20-12109-15125
R505	ERG-2ANJ 104 H	MAT	20-11006-10443
R506	ERG-2ANJ 100 H	MAT	20-11006-10043
R507	ERDS2TJ 103 T	MAT	20-12108-10313
R508	ERDS2TJ 104 T	MAT	20-12108-10413
R509	ERG-2ANJ 104 H	MAT	20-11006-10443
R510	ERX-2ANJ R39 H	MAT	20-11003-96243
R511	ERF1OZYK 3R3	MAT	20-14121-03374
R512	ERDS2TJ 101 T	MAT	20-12108-10113
R513	ERDS2TJ 104 T	MAT	20-12108-10413
R514	ERDS1TJ 101 T	MAT	20-12109-10125
R515	ERDS1TJ 750 T	MAT	20-12109-75025
R516	ERG-2ANJ 100 H	MAT	20-11006-10043
RG02	ERDS2TJ 333 T	MAT	20-12108-33313

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* MAIN BOARD *
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NO.	DISCRIPTION	MFD.	PARTS-CODE
R603	ERDS2TJ 103 T	MAT	20-12108-10313
R659	ERDS2TJ 102 T	MAT	20-12108-10213
R701	ERDS1TJ 100 T	MAT	20-12109-10025
R702	ERDS2TJ 101 T	MAT	20-12108-10113
R703	ERDS2TJ 473 T	MAT	20-12108-47313
R704	ERDS2TJ 103 T	MAT	20-12108-10313
R706	ERDS2TJ 331 T	MAT	20-12108-33113
R707	ERDS2TJ 152 T	MAT	20-12108-15213
R708	ERDS2TJ 331 T	MAT	20-12108-33113
R709	ERDS2TJ 222 T	MAT	20-12108-22213
R710	ERDS2TJ 223 T	MAT	20-12108-22313
R711	ERDS2TJ 223 T	MAT	20-12108-22313
R712	ERDS2TJ 681 T	MAT	20-12108-68113
R713	ERDS2TJ 681 T	MAT	20-12108-68113
R714	ERDS2TJ 750 T	MAT	20-12108-75013
R715	ERDS2TJ 750 T	MAT	20-12108-75013
R716	ERDS2TJ 101 T	MAT	20-12108-10113
R717	ERDS2TJ 471 T	MAT	20-12108-47113
R718	ERDS2TJ 223 T	MAT	20-12108-22313
R719	ERDS2TJ 223 T	MAT	20-12108-22313
R720	ERDS2TJ 101 T	MAT	20-12108-10113
R721	ERDS2TJ 472 T	MAT	20-12108-47213
R722	ERDS2TJ 473 T	MAT	20-12108-47313
R723	ERDS2TJ 473 T	MAT	20-12108-47313
R724	ERDS2TJ 473 T	MAT	20-12108-47313
R801	ERDS2TJ 330 T	MAT	20-12108-33013
R802	ERDS2TJ 333 T	MAT	20-12108-33313
R803	ERG-2ANJ 103 H	MAT	20-11006-10343
R804	ERDS2TJ 684 T	MAT	20-12108-68413
VR102	RG06UT2 10KΩ	COS	20-15549-10300
VR103	RG06UT2 10ΩΩ (NTSC)	COS	20-15549-10100
	RG06UT2 5KΩ (PAL)	COS	20-15549-50200
VR113	RG06UT2 100Ω (NTSC)	COS	20-15549-10100
	RG06UT2 5KΩ (PAL)	COS	20-15549-50200
VR123	RG06UT2 100Ω (NTSC)	COS	20-15549-10100
	RG06UT2 5KΩ (PAL)	COS	20-15549-50200
VR301	RG06UT2 200KΩ	COS	20-15549-20400
VR302	RG06UT2 50KΩ	COS	20-15549-50300
VR303	RG06UT2 50KΩ	COS	20-15549-50300
VR401	RG06UT2 20KΩ	COS	20-15549-20300
VR402	RG06UT2 5KΩ	COS	20-15549-50200
VR403	RG06UT2 20KΩ	COS	20-15549-20300
VR404	RG06UT2 10KΩ	COS	20-15549-10300
VR405	RG06UT2 200KΩ	COS	20-15549-20400
VR406	RG06UT2 50KΩ	COS	20-15549-50300
VR407	RG06UT2 200KΩ	COS	20-15549-20400
VR409	RG06UT2 500Ω	COS	20-15549-50100
VR410	RG06UT2 500Ω	COS	20-15549-50100
VR411	RG06UT2 1KΩ	COS	20-15549-10200
VR412	RG06UT2 20KΩ	COS	20-15549-20300
VR413	RG06UT2 20KΩ	COS	20-15549-20300
VR414	RG06UT2 10KΩ	COS	20-15549-10300
VR415	RG06UT2 50KΩ	COS	20-15549-50300
VR416	RG06UT2 5KΩ	COS	20-15549-50200
VR417	WR188K 2.5VS 50Ω	NOB	20-15663-50000
VR501	RG06UT2 1MΩ	COS	20-15549-10500
VR801	RG06UT2 1MΩ	COS	20-15549-10500

<CAPACITORS>

C101	ECEA 1EU 470B	MAT	20-20123-47625
C102	ECQ-V1H 104JZ2	MAT	20-22137-10450
C103	ECQ-V1H 104JZ2	MAT	20-22137-10450
C104	ECEA 1EU 470B	MAT	20-20123-47625
C105	ECQ-V1H 104JZ2	MAT	20-22137-10450
C116	ECEA 1EU 470B	MAT	20-20123-47625
C117	ECEA 1EU 470B	MAT	20-20123-47625
C118	ECQ-V1H 104JZ2	MAT	20-22137-10450
C120	NP 2D 121JT	TYO	20-22393-12177
C123	ECEA 1EU 470B	MAT	20-20123-47625
C125	ECEA 1EU 470B	MAT	20-20123-47625
C124	RT-HE40TKSL 620K	KCK	20-24518-62050
C126	ECEA 1EU 101B	MAT	20-20123-10725
C127	ECQ-V1H 104JZ2	MAT	20-22137-10450
C133	ECEA 1EU 470B	MAT	20-20123-47625
C134	RT-HE40TKSL 680K	KCK	20-24518-68050
C135	ECEA 1EU 470B	MAT	20-20123-47625
C136	ECEA 2AU R47B	MAT	20-20123-47472
C143	ECEA 1EU 470B	MAT	20-20123-47625
C144	RT-HE40TKSL 750K	KCK	20-24518-75050
C145	ECEA 1EU 470B	MAT	20-20123-47625
C146	ECQ-B1H 333JZ4	MAT	20-22136-33350
C147	RT-HE40TKSL 390K	KCK	20-24518-39050
C225	ECQ-B1H 103JZ4	MAT	20-22136-10350
C228	ECEA 1EU 101B	MAT	20-20123-10725
C229	ECQ-V1H 104JZ2	MAT	20-22137-10450
C230	ECEA 2CS 010B	MAT	20-20123-10576
C231	ECEA 1EU 470B	MAT	20-20123-47625
C232	ECQ-B1H 103JZ4	MAT	20-22136-10350
C233	ECQ-V1H 104JZ2	MAT	20-22137-10450
C244	ECEA 1EU 470B	MAT	20-20123-47625
C301	RT-HE40TKSL 750K	KCK	20-24518-75050
C302	RT-HE40TKSL 100K	KCK	20-24518-10050
C303	ECEA 2CS 010B	MAT	20-20123-10576
C304	ECQ-B1H 222JZ4	MAT	20-22136-22250
C305	ECQ-B1H 333JZ4	MAT	20-22136-33350
C306	ECQ-B1H 333JZ4	MAT	20-22136-33350
C307	ECQ-V1H 104JZ2	MAT	20-22137-10450
C308	ECEA 1EU 101B	MAT	20-20123-10725
C309	NP 2D 221JT	TYO	20-22393-22177
C401	ECEA 1EU 101B	MAT	20-20123-10725
C402	NP 2D 101JT	TYO	20-22393-10177
C403	ECQ-B1H 102JZ4	MAT	20-22136-10250
C404	NP 2D 221JT	TYO	20-22393-22177
C405	ECQ-B1H 103JZ4	MAT	20-22136-10350
C406	ECEA 2CS 010B	MAT	20-20123-10576
C407	ECEA 2CS 010B	MAT	20-20123-10576
C408	ECQ-B1H 103JZ4	MAT	20-22136-10350
C409	ECQ-B1H 332JZ4	MAT	20-22136-33250
C410	ECQ-F6332KZ	MAT	20-22121-33286
C411	ECEA 1JU 100B	MAT	20-20123-10663
C412	ECEA 2CS 010B	MAT	20-20123-10576
C413	ECEA 1EU 221B	MAT	20-20123-22725
C414	ECEA 1JU 100B	MAT	20-20123-10663
C415	ECQ-V1H 104JZ2	MAT	20-22137-10450
C416	ECQ-B1H 223JZ4	MAT	20-22136-22350
C417	ECQ-B1H 103JZ4	MAT	20-22136-10350
C418	DHR 1V 105K1S	NEC	20-21092-10535
C419	ECEA 2AU R47B	MAT	20-20123-47472
C420	ECQ-V1H 473JZ2	MAT	20-22137-47350
C421	ECQ-B1H 472JZ4	MAT	20-22136-47250
C422	ECQ-V1H 104JZ2	MAT	20-22137-10450
C423	ECQ-B1H 103JZ4	MAT	20-22136-10350
C424	NP 2D 471JT	TYO	20-22393-47177
C425	ECEA 1JU 100B	MAT	20-20123-10663
C426	ECEA 1JU 221	MAT	20-20123-22763
C427	ECEA 1JU 100B	MAT	20-20123-10663
C428	ECEA 1JU 100B	MAT	20-20123-10663
C429	ECEA 1JU 102	MAT	20-20123-10863
C430	ECQ-M2332KZ	MAT	20-22123-33277
C431	ECQ-M2224KZ	MAT	20-22123-22477
C432	NP 2D 101JT	TYO	20-22393-10177
C433	ECEA 1EN 100SB	MAT	20-20123-10625
C434	ECQ-V1H 104JZ2	MAT	20-22137-10450
C435	ECEA 1EN 100SB	MAT	20-20123-10625
C436	ECQ-B1H 333JZ4	MAT	20-22136-33350
C437	ECEA 2CS 010B	MAT	20-20123-10576
C438	ECEA 2CS 100B	MAT	20-20123-10676
C439	ECQ-F6222KZ	MAT	20-22121-22286
C440	ECEA 1JU 100B	MAT	20-20123-10663
C441	ECEA 1JU 100B	MAT	20-20123-10663
C443	ECQ-B1H 102JZ4	MAT	20-22136-10250
C444	ECEA 1JFC 100B	MAT	20-20130-10663
C445	ECQ-B1H 223JZ4	MAT	20-22136-22350
C446	MS23SJS2 471K	KCK	20-24212-47191
C448	DKB 222J 1600VD00	SIN	20-22101-22290
C449	DKB 222J 1600VD00	SIN	20-22101-22290
C450	ECEA 2CS 470	MAT	20-20122-47676
C452	ECEA 2CS 010B	MAT	20-20123-10576
C453	DKB 472J 1600VD00	SIN	20-22101-47290
C454	DHS 0.68μ/200V	SIN	20-22097-68477
C455	DKB 102J 1600VD00	SIN	20-22101-10290
C456	C7NP 3C 104K	OKA	20-22064-10490
C458	ECEA 2CS 010B	MAT	20-20123-10576
C459	ECEA 1EU 101B	MAT	20-20123-10725
C461	ECQ-E1473KN	MAT	20-22128-47372
C462	ECEA 1HU 470	MAT	20-20125-47650
C463	ECEA 2CS 010B	MAT	20-20123-10576
C464	ECQ-E2104KS	MAT	20-22128-10477
C465	RT-HE40TKSL 390K	KCK	20-24518-39050

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* 16 SERIES COLOR MONITOR *
* MAIN BOARD *
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NO.	DISCRIPTION	MFD.	PARTS-CODE
C501	ECQ-E2A 224MW	MAT	20-22139-22478
C502	ECQ-E2A 224MW	MAT	20-22139-22478
C503	ECK-DHS 222MD	MAT	20-24122-22283
C504	ECK-DHS 222MD	MAT	20-24122-22283
C505	ECOS 2DX 471CA	MAT	20-20142-47777
C506	ECQ-F4104KZ	MAT	20-22121-10483
C507	DKB 332J 1600VD00	SIN	20-22101-33290
C508	ECQ-V1H 104JZ2	MAT	20-22137-10450
C509	ECEA 2CG 100	MAT	20-20126-10676
C510	ECQ-E1104KN	MAT	20-22128-10472
C511	ECEA 1EU 222	MAT	20-20123-22825
C512	ECEA 1EGE 101	MAT	20-20137-10725
C513	ECEA 2AGE 471	MAT	20-20127-47772
C514	ECOS 2CX 471BA	MAT	20-20142-47776
C515	ECOS 2EX 101BA	MAT	20-20142-10778
C516	ECEA 1EU 470B	MAT	20-20123-47625
C517	ECQ-M1472KZ	MAT	20-22123-47272
C626	ECQ-V1H 104JZ2	MAT	20-22137-10450
C701	ECEA 1JU 100B	MAT	20-20123-10663
C702	NP 2D 101JT	TYO	20-22393-10177
C703	ECEA 1EU 101B	MAT	20-20123-10725
C704	ECQ-V1H 104JZ2	MAT	20-22137-10450
C705	ECEA 1EU 470B	MAT	20-20123-47625
C706	NP 2D 560JT	TYO	20-22393-56077
C707	ECEA 1EU 470B	MAT	20-20123-47625
C801	DKB 152J 1600VD00	SIN	20-22101-15290
C802	DKB 102J 1600VD00	SIN	20-22101-10290
C803	ECQ-E2103KS	MAT	20-22128-10377

<TRANSFORMERS>

T401	ETH-19Y22AY	MAT	20-40130-01000
T402	ST-901265 (KF58114I)	MAT	20-40995-12650
T501	ST-901471	IKE	20-40995-14710

<INDUCTANCE COILS>

L401	ST-9620	MAT	20-40985-96200
L402	ST-9620	MAT	20-40985-96200
L403	ELH5L701	MAT	20-40128-01070
L404	LF5-332K	SON	20-40332-00300
L405	LF5-472K	SON	20-40332-00500

<RELAY>

RL501	AJR3221-9	MAT	20-46007-00100

<LINE FILTER>

FL501	SC05-100JV	TOK	20-43541-00101

<DELAY LINE>

DL103	CN-100	SWC	20-44062-00100

<POSISTOR>

TH501	ERP-Z4B0M100A	MAT	20-19004-01000

<CONNECTORS>

CN202	350789-1	AMP	20-30501-01270
CN203	350786-1	AMP	20-30501-01250
CN204	DF1-15P-2.5DSA	HIR	20-30079-01502
CN205	DF1-20P-2.5DSA	HIR	20-30079-02002
CN206	350792-1	AMP	20-30501-01300
CN207	350711-1	AMP	20-30501-00800
CN212	DF1-2P-2.5DSA	HIR	20-30079-00202
CN213	DF1-2P-2.5DSA	HIR	20-30079-00202
CN1B	DF1-11P-2.5DSA	HIR	20-30079-01102
CN2B	DF1-11P-2.5DSA	HIR	20-30079-01102
CNM1	5271-10A	NMO	20-30753-00202
CNM2	5271-10A	NMO	20-30753-00202
CNM3	5271-10A	NMO	20-30753-00202
CNM4	5271-10A	NMO	20-30753-00202
CN915	1951R	NMO	20-30561-00200
	1381	NMO	20-30562-00200

NO.	DISCRIPTION	MFD.	PARTS-CODE
	<OTHERS>		
	ST-901237A(For IC501)	SKK	20-59995-12371
	YC40B (For Tr408)	HIT	20-59001-00700
	SK16B (For Tr408)	HIT	20-59001-00301

<TEST POINTS>

TP102	TBPS	IKE
TP105	TBPS	IKE
TP112	TBPS	IKE
TP122	TBPS	IKE
TP204	TBPS	IKE
TP205	TBPS	IKE
TP206	TBPS	IKE
TP207	TBPS	IKE
TP301	TBPS	IKE
TP302	TBPS	IKE
TP303	TBPS	IKE
TP304	TBPS	IKE
TP401	TBPS	IKE
TP403	TBPS	IKE
TP404	TBPS	IKE
TP406	TBPS	IKE
TP407	TBPS	IKE
TP408	TBPS	IKE
TP409	TBPS	IKE
TP410	TBPS	IKE
TP411	TBPS	IKE
TP801	TBPS	IKE

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*  16 SERIES COLOR MONITOR  *
*       PHASE-A  BOARD      *
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NO.	DISCRIPTION	MFD.	PARTS-CODE
<INTEGRATED CIRCUIT>			
IC1	μPD4011BC (CMOS)	NEC	20-01784-20400
<TRANSISTORS>			
Tr1	2SA1015Y-TPE2	TOS	20-02822-05402
Tr2	2SA1015Y-TPE2	TOS	20-02822-05402
<DIODES>			
D1	1S1588-TPB2	TOS	20-03812-01201
D2	1S1588-TPB2	TOS	20-03812-01201
D3	1S1588-TPB2	TOS	20-03812-01201
D4	1S1588-TPB2	TOS	20-03812-01201
D5	1S1588-TPB2	TOS	20-03812-01201
<RESISTORS>			
R1	ERDS2TJ 103 T	MAT	20-12108-10313
R2	ERDS2TJ 333 T	MAT	20-12108-33313
R3	ERDS2TJ 223 T	MAT	20-12108-22313
R4	ERDS2TJ 104 T	MAT	20-12108-10413
R5	ERDS2TJ 223 T	MAT	20-12108-22313
R6	ERDS2TJ 103 T	MAT	20-12108-10313
R7	ERDS2TJ 332 T	MAT	20-12108-33213
R8	ERDS2TJ 103 T	MAT	20-12108-10313
R9	ERDS2TJ 472 T	MAT	20-12108-47213
VR1	RG06UT2 50KΩ	COS	20-15549-50300
VR2	RG06UT2 100KΩ	COS	20-15549-10400
<CAPACITORS>			
C1	ECEA 1CK 101B	MAT	20-20128-10716
C2	NP 2D 221JT	TYO	20-22393-22177
C3	NP 2D 101JT	TYO	20-22393-10177
C4	RT-BE40TKSL 220K	KCK	20-24518-22050
<CONNECTOR>			
CN4	5530-06B/BX	NMO	20-30753-05060

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* IG SERIES COLOR MONITOR *
* MATRIX SUB BOARD *
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NO.	DISCRIPTION	MFD.	PARTS-CODE
<INTEGRATED CIRCUITS>			
IC601	HA11465A	HIT	20-01211-00880
IC602	HA11465A	HIT	20-01211-00880
IC603	HA11465A	HIT	20-01211-00880
IC604	μ PD4053BC (CMOS)	NEC	20-01784-23000
<TRANSISTORS>			
Tr603	2SC1815Y-TPE2	TOS	20-02824-05702
Tr609	2SC1815Y-TPE2	TOS	20-02824-05702
Tr616	2SC1815Y-TPE2	TOS	20-02824-05702
Tr617	2SC1815Y-TPE2	TOS	20-02824-05702
Tr618	2SC1815Y-TPE2	TOS	20-02824-05702
Tr619	2SC1815Y-TPE2	TOS	20-02824-05702
Tr620	2SC1815Y-TPE2	TOS	20-02824-05702
Tr621	2SC1815Y-TPE2	TOS	20-02824-05702
Tr622	2SC1815Y-TPE2	TOS	20-02824-05702
<RESISTORS>			
R601	ERDS1VJ 100 T	MAT	20-12106-10033
R605	ERDS2TJ 101 T	MAT	20-12108-10113
R606	ERDS2TJ 333 T	MAT	20-12108-33313
R607	ERDS2TJ 101 T	MAT	20-12108-10113
R608	ERDS2TJ 101 T	MAT	20-12108-10113
R609	ERDS2TJ 102 T	MAT	20-12108-10213
R610	ERDS2TJ 222 T	MAT	20-12108-22213
R611	ERDS2TJ 222 T	MAT	20-12108-22213
R612	ERDS2TJ 101 T	MAT	20-12108-10113
R613	ERDS2TJ 472 T	MAT	20-12108-47213
R614	ERDS2TJ 472 T	MAT	20-12108-47213
R615	ERDS2TJ 472 T	MAT	20-12108-47213
R628	ERDS1VJ 100 T	MAT	20-12106-10033
R633	ERDS2TJ 101 T	MAT	20-12108-10113
R634	ERDS2TJ 101 T	MAT	20-12108-10113
R635	ERDS2TJ 102 T	MAT	20-12108-10213
R636	ERDS2TJ 222 T	MAT	20-12108-22213
R637	ERDS2TJ 222 T	MAT	20-12108-22213
R638	ERDS2TJ 101 T	MAT	20-12108-10113
R656	ERDS1VJ 100 T	MAT	20-12106-10033
R663	ERDS2TJ 101 T	MAT	20-12108-10113
R664	ERDS2TJ 101 T	MAT	20-12108-10113
R665	ERDS2TJ 102 T	MAT	20-12108-10213
R666	ERDS2TJ 222 T	MAT	20-12108-22213
R667	ERDS2TJ 222 T	MAT	20-12108-22213
R668	ERDS2TJ 473 T	MAT	20-12108-47313
R669	ERDS2TJ 473 T	MAT	20-12108-47313
R670	ERDS2TJ 473 T	MAT	20-12108-47313
R671	ERDS2TJ 473 T	MAT	20-12108-47313
R672	ERDS2TJ 473 T	MAT	20-12108-47313
R673	ERDS2TJ 473 T	MAT	20-12108-47313
R674	ERDS2TJ 473 T	MAT	20-12108-47313
R675	ERDS2TJ 331 T	MAT	20-12108-33113
R676	ERDS2TJ 331 T	MAT	20-12108-33113
R677	ERDS2TJ 331 T	MAT	20-12108-33113
R678	ERDS2TJ 222 T	MAT	20-12108-22213
R679	ERDS2TJ 222 T	MAT	20-12108-22213
R680	ERDS2TJ 222 T	MAT	20-12108-22213
R681	ERDS2TJ 681 T	MAT	20-12108-68113
R682	ERDS2TJ 681 T	MAT	20-12108-68113
R683	ERDS2TJ 681 T	MAT	20-12108-68113
R687	ERDS2TJ 331 T	MAT	20-12108-33113
R689	ERDS2TJ 331 T	MAT	20-12108-33113
R690	ERDS2TJ 331 T	MAT	20-12108-33113
R691	ERDS2TJ 222 T	MAT	20-12108-22213
R692	ERDS2TJ 222 T	MAT	20-12108-22213
R693	ERDS2TJ 222 T	MAT	20-12108-22213
R694	ERDS2TJ 473 T	MAT	20-12108-47313
R695	ERDS2TJ 473 T	MAT	20-12108-47313
R696	ERDS2TJ 473 T	MAT	20-12108-47313
R697	ERDS2TJ 473 T	MAT	20-12108-47313
R698	ERDS2TJ 473 T	MAT	20-12108-47313
R699	ERDS2TJ 473 T	MAT	20-12108-47313
VR601	RG0GVT2 10KΩ	COS	20-15550-10300

NO.	DISCRIPTION	MFD.	PARTS-CODE
<CAPACITORS>			
C601	ECEA 1EU 101B	MAT	20-20123-10725
C602	ECQ-V1H 104JZ2	MAT	20-22137-10450
C604	ECEA 1EU 470B	MAT	20-20123-47625
C605	ECEA 1EU 470B	MAT	20-20123-47625
C606	ECQ-V1H 104JZ2	MAT	20-22137-10450
C607	RT-HE40TKSL 750K	KCK	20-24518-75050
C612	ECEA 1EU 101B	MAT	20-20123-10725
C613	ECQ-V1H 104JZ2	MAT	20-22137-10450
C615	ECEA 1EU 470B	MAT	20-20123-47625
C616	ECEA 1EU 470B	MAT	20-20123-47625
C617	ECQ-V1H 104JZ2	MAT	20-22137-10450
C618	RT-HE40TKSL 680K	KCK	20-24518-68050
C624	ECEA 1EU 101B	MAT	20-20123-10725
C625	ECQ-V1H 104JZ2	MAT	20-22137-10450
C629	ECEA 1EU 470B	MAT	20-20123-47625
C630	ECEA 1EU 470B	MAT	20-20123-47625
C631	ECQ-V1H 104JZ2	MAT	20-22137-10450
C632	RT-HE40TKSL 750K	KCK	20-24518-75050
C633	ECQ-B1H 103JZ4	MAT	20-22136-10350
C634	ECQ-B1H 103JZ4	MAT	20-22136-10350
C635	ECQ-V1H 104JZ2	MAT	20-22137-10450
C636	ECQ-V1H 104JZ2	MAT	20-22137-10450
C637	ECQ-V1H 104JZ2	MAT	20-22137-10450
C638	ECEA 1EU 470B	MAT	20-20123-47625
C639	ECEA 1EU 470B	MAT	20-20123-47625
C640	ECEA 1EU 470B	MAT	20-20123-47625
C641	RT-HE40TKSL 150K	KCK	20-24518-15050
C642	RT-HE40TKSL 150K	KCK	20-24518-15050
C643	RT-HE40TKSL 150K	KCK	20-24518-15050
C644	ECEA 1EU 470B	MAT	20-20123-47625
C645	ECEA 1EU 470B	MAT	20-20123-47625
C646	ECEA 1EU 470B	MAT	20-20123-47625
<CONNECTORS>			
CNS3	5145-10AH	NMO	20-30753-00102
CNS4	5145-10AH	NMO	20-30753-00102
CN208	DF1-10P-2.5DSA	HIR	20-30079-01002

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*  16 SERIES COLOR MONITOR  *
*     NTSC SUB BOARD        *
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NO.	DISCRIPTION	MFD.	PARTS-CODE
<INTEGTATED CIRCUIT>			
IC202	HA11436A	HIT	20-01211-00841
<DIODES>			
D201	1S1588-TPB2	TOS	20-03812-01201
D202	MA27Q-B	MAT	20-03363-00202
D204	1S1588-TPB2	TOS	20-03812-01201
<TRANSISTORS>			
Tr103	2SC1815Y-TPE2	TOS	20-02824-05702
Tr104	2SC1815Y-TPE2	TOS	20-02824-05702
Tr105	2SC1815Y-TPE2	TOS	20-02824-05702
Tr106	2SC1815Y-TPE2	TOS	20-02824-05702
Tr108	2SC1815Y-TPE2	TOS	20-02824-05702
Tr109	2SC1815Y-TPE2	TOS	20-02824-05702
Tr111	2SC1815Y-TPE2	TOS	20-02824-05702
Tr112	2SC1815Y-TPE2	TOS	20-02824-05702
Tr201	2SC1815Y-TPE2	TOS	20-02824-05702
Tr204	2SC1815Y-TPE2	TOS	20-02824-05702
Tr205	2SA1015Y-TPE2	TOS	20-02822-05402
Tr212	2SC1815Y-TPE2	TOS	20-02824-05702
Tr213	2SC1815Y-TPE2	TOS	20-02824-05702
Tr214	2SC1815Y-TPE2	TOS	20-02824-05702
<RESISTORS>			
R113	ERDS2TJ 101 T	MAT	20-12108-10113
R114	ERDS2TJ 223 T	MAT	20-12108-22313
R115	ERDS2TJ 683 T	MAT	20-12108-68313
R116	ERDS2TJ 101 T	MAT	20-12108-10113
R117	ERDS2TJ 152 T	MAT	20-12108-15213
R119	ERDS2TJ 152 T	MAT	20-12108-15213
R121	ERDS2TJ 681 T	MAT	20-12108-68113
R122	ERDS2TJ 103 T	MAT	20-12108-10313
R123	ERDS2TJ 331 T	MAT	20-12108-33113
R124	ERDS2TJ 331 T	MAT	20-12108-33113
R125	ERDS2TJ 472 T	MAT	20-12108-47213
R127	ERDS2TJ 102 T	MAT	20-12108-10213
R128	ERDS2TJ 331 T	MAT	20-12108-33113
R129	ERDS2TJ 102 T	MAT	20-12108-10213
R130	ERDS2TJ 331 T	MAT	20-12108-33113
R131	ERDS2TJ 152 T	MAT	20-12108-15213
R132	ERDS2TJ 152 T	MAT	20-12108-15213
R133	ERDS2TJ 683 T	MAT	20-12108-68313
R134	ERDS2TJ 223 T	MAT	20-12108-22313
R135	ERDS2TJ 332 T	MAT	20-12108-33213
R136	ERDS2TJ 333 T	MAT	20-12108-33313
R137	ERDS2TJ 221 T	MAT	20-12108-22113
R138	ERDS2TJ 470 T	MAT	20-12108-47013
R141	ERDS2TJ 152 T	MAT	20-12108-15213
R142	ERDS2TJ 472 T	MAT	20-12108-47213
R143	ERDS2TJ 152 T	MAT	20-12108-15213
R144	ERDS2TJ 152 T	MAT	20-12108-15213
R201	ERDS2TJ 471 T	MAT	20-12108-47113
R202	ERDS2TJ 152 T	MAT	20-12108-15213
R203	ERDS2TJ 153 T	MAT	20-12108-15313
R204	ERDS2TJ 472 T	MAT	20-12108-47213
R206	ERDS2TJ 221 T	MAT	20-12108-22113
R207	ERDS2TJ 471 T	MAT	20-12108-47113
R209	ERDS2TJ 135 T	MAT	20-12108-13513
R210	ERDS2TJ 103 T	MAT	20-12108-10313
R215	ERDS2TJ 334 T	MAT	20-12108-33413
R216	ERDS2TJ 562 T	MAT	20-12108-56213
R217	ERDS2TJ 103 T	MAT	20-12108-10313
R218	ERDS2TJ 332 T	MAT	20-12108-33213
R219	ERDS2TJ 332 T	MAT	20-12108-33213
R221	ERDS2TJ 103 T	MAT	20-12108-10313
R222	ERDS2TJ 223 T	MAT	20-12108-22313
R224	ERDS2TJ 331 T	MAT	20-12108-33113
R225	ERDS2TJ 471 T	MAT	20-12108-47113
R226	ERDS2TJ 103 T	MAT	20-12108-10313
R227	ERDS2TJ 103 T	MAT	20-12108-10313
R230	ERDS2TJ 103 T	MAT	20-12108-10313
R231	ERDS2TJ 103 T	MAT	20-12108-10313
R232	ERDS2TJ 103 T	MAT	20-12108-10313
R233	ERDS2TJ 333 T	MAT	20-12108-33313
R262	ERDS2TJ 222 T	MAT	20-12108-22213
R263	ERDS2TJ 222 T	MAT	20-12108-22213
R264	ERDS2TJ 471 T	MAT	20-12108-47113
R265	ERDS2TJ 222 T	MAT	20-12108-22213
R266	ERDS2TJ 471 T	MAT	20-12108-47113
R267	ERDS2TJ 222 T	MAT	20-12108-22213
R268	ERDS2TJ 222 T	MAT	20-12108-22213
R269	ERDS2TJ 103 T	MAT	20-12108-10313
R270	ERDS2TJ 752 T	MAT	20-12108-75213
R271	ERDS2TJ 471 T	MAT	20-12108-47113
R272	ERDS2TJ 223 T	MAT	20-12108-22313
R273	ERDS2TJ 222 T	MAT	20-12108-22213
R280	ERDS2TJ 103 T	MAT	20-12108-10313
R281	ERDS2TJ 153 T	MAT	20-12108-15313
R282	ERDS2TJ 152 T	MAT	20-12108-15213
R287	ERDS2TJ 224 T	MAT	20-12108-22413
R288	ERDS2TJ 681 T	MAT	20-12108-68113
R289	ERDS2TJ 102 T	MAT	20-12108-10213
R290	ERDS2TJ 101 T	MAT	20-12108-10113
R291	ERDS2TJ 101 T	MAT	20-12108-10113
VR101	RG06UT2 500Ω	COS	20-15549-50100
VR104	RG06UT2 10KΩ	COS	20-15549-10300
VR202	RG06UT2 5KΩ	COS	20-15549-50200
VR203	RG06UT2 2KΩ	COS	20-15549-20200
VR204	RG06UT2 2KΩ	COS	20-15549-20200
VR206	RG06UT2 2KΩ	COS	20-15549-20200
<CAPACITORS>			
C106	ECEA 1CN 330SB	MAT	20-20129-33616
C107	RT-HE40TKSL 510K	KCK	20-24518-51050
C110	ECQ-V1H 104JZ2	MAT	20-22137-10450
C111	ECEA 1VU 330B	MAT	20-20125-33635
C112	RT-HE40TKSL 750K	KCK	20-24518-75050
C113	RT-HE40TKSL 750K	KCK	20-24518-75050
C114	ECEA 1EU 101B	MAT	20-23123-10725
C115	ECQ-V1H 104JZ2	MAT	20-22137-10450
C128	ECEA 1EU 331B	MAT	20-23123-33725
C129	ECQ-V1H 104JZ2	MAT	20-22137-10450
C201	RT-HE40TKSL 181K	KCK	20-24518-18150
C202	RT-HE40TKSL 560K	KCK	20-24518-56050
C203	ECEA 1VU 330B	MAT	20-20125-33635
C204	NP 2D 101JT	TYO	20-22393-10177
C205	ECQ-V1H 104JZ2	MAT	20-22137-10450
C206	ECQ-B1H 103JZ4	MAT	20-22136-10350
C207	ECEA 2AU 010B	MAT	20-23123-10572
C208	ECEA 1VU 330B	MAT	20-20125-33635
C209	RT-HE40TKSL 510K	KCK	20-24518-51050
C210	ECEA 1EN 100SB	MAT	20-20129-10625
C211	ECQ-V1H 104JZ2	MAT	20-22137-10450
C212	ECEA 1JU 100B	MAT	20-23123-10663
C213	ECQ-V1H 104JZ2	MAT	20-22137-10450
C214	ECQ-V1H 473JZ2	MAT	20-22137-47350
C215	ECQ-B1H 102JZ4	MAT	20-22136-10250
C216	RT-HE40TKSL 390K	KCK	20-24518-39050
C217	RT-HE40TKSL 220K	KCK	20-24518-22050
C218	RT-HE40TKSL 270K	KCK	20-24518-27050
C219	ECQ-B1H 333JZ4	MAT	20-22136-33350
C220	ECQ-V1H 104JZ2	MAT	20-22137-10450
C221	ECQ-B1H 102JZ4	MAT	20-22136-10250
C226	ECEA 1EU 331B	MAT	20-23123-33725
C227	ECQ-V1H 104JZ2	MAT	20-22137-10450
C234	ECEA 1EU 470B	MAT	20-23123-47625
C235	ECEA 1HN 100SB	MAT	20-20129-10650
C236	ECEA 1EU 101B	MAT	20-23123-10725
C238	NP 2D 221JT	TYO	20-22393-22177
C239	NP 2D 221JT	TYO	20-22393-22177
C240	NP 2D 221JT	TYO	20-22393-22177
C241	ECEA 1EN 100SB	MAT	20-20129-10625
C242	ECEA 1EN 100SB	MAT	20-20129-10625
C243	ECEA 1EN 100SB	MAT	20-20129-10625
C245	ECEA 1EU 101B	MAT	20-23123-10725
C246	ECEA 1EU 101B	MAT	20-23123-10725
C248	RT-HE40TKSL 181K	KCK	20-24518-18150

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* 16 SERIES COLOR MONITOR *
* NTSC SUB BOARD *
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NO.	DISCRIPTION	MFD.	PARTS-CODE
<COILS>			
L101	LF1-330K	SON	20-40331-33000
L103	ST-901284A	IKE	20-40985-12841
L104	ST-901285A	IKE	20-40985-12851
L201	LF1-100K	SON	20-40331-10000
L202	LF1-390K	SON	20-40331-39000
L203	LF1-330K	SON	20-40331-33000
L204	LF1-330K	SON	20-40331-33000
L205	LF1-330K	SON	20-40331-33000
<DELAY LINES>			
DL101	MS-19N	KIN	20-44361-00100
DL102	ELT-10Z214M	MAT	20-44122-00300
<SWITCH>			
S201	SS-12SBP2	NKA	20-36002-02300
<X'TAL>			
X201	3.579545MHz (HC-6/W)	KIN	20-45003-00200
<CONNECTORS>			
CNS1	5145-10AH	NMO	20-30753-00102
CNS2	5145-10AH	NMO	20-30753-00102
<TEST POINTS>			
TP101	TBPS	IKE	
TP201	TBPS	IKE	
TP202	TBPS	IKE	
TP203	TBPS	IKE	

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* 16 SERIES COLOR MONITOR *
* PAL SUB-A BOARD *
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NO.	DISCRIPTION	MFD.	PARTS-CODE
<INTEGRATED CIRCUITS>			
IC1	HA11465A	HIT	20-01211-00880
IC2	AN6573	MAT	20-01004-06550
IC3	μPC1365C3	NEC	20-01783-02020
IC4	AN612	MAT	20-01004-00320
IC5	TA7347	TOS	20-01571-01010
<TRANSISTORS>			
Tr2	2SA1015Y-TPE2	TOS	20-02822-05402
Tr3	2SA1815Y-TPE2	TOS	20-02824-05702
Tr4	2SA1815Y-TPE2	TOS	20-02824-05702
Tr5	2SA1815Y-TPE2	TOS	20-02824-05702
Tr6	2SA1815Y-TPE2	TOS	20-02824-05702
Tr7	2SA1815Y-TPE2	TOS	20-02824-05702
Tr8	2SA1015Y-TPE2	TOS	20-02822-05402
Tr9	2SA1815Y-TPE2	TOS	20-02824-05702
Tr10	2SA1015Y-TPE2	TOS	20-02822-05402
Tr11	2SA1815Y-TPE2	TOS	20-02824-05702
Tr12	2SA1815Y-TPE2	TOS	20-02824-05702
Tr13	2SA1815Y-TPE2	TOS	20-02824-05702
Tr14	2SA1815Y-TPE2	TOS	20-02824-05702
Tr15	2N3904	NEC	20-02821-00600
Tr16	2N3904	NEC	20-02821-00600
Tr17	2SA1815Y-TPE2	TOS	20-02824-05702
Tr18	2SA1815Y-TPE2	TOS	20-02824-05702
<DIODE>			
D1	1S1588-TPB2	TOS	20-03812-01201
<RESISTORS>			
R1	ERDS2TJ 101 T	MAT	20-12108-10113
R2	ERDS2TJ 101 T	MAT	20-12108-10113
R3	ERDS2TJ 332 T	MAT	20-12108-33213
R6	ERDS2TJ 103 T	MAT	20-12108-10313
R7	ERDS2TJ 393 T	MAT	20-12108-39313
R8	ERDS2TJ 471 T	MAT	20-12108-47113
R9	ERDS2TJ 102 T	MAT	20-12108-10213
R11	ERDS2TJ 101 T	MAT	20-12108-10113
R12	ERDS2TJ 222 T	MAT	20-12108-22213
R13	ERDS2TJ 331 T	MAT	20-12108-33113
R14	ERDS2TJ 332 T	MAT	20-12108-33213
R15	ERDS2TJ 222 T	MAT	20-12108-22213
R16	ERDS2TJ 221 T	MAT	20-12108-22113
R17	ERDS2TJ 470 T	MAT	20-12108-47013
R18	ERDS2TJ 152 T	MAT	20-12108-15213
R19	ERDS2TJ 222 T	MAT	20-12108-22213
R20	ERDS2TJ 152 T	MAT	20-12108-15213
R21	ERDS2TJ 152 T	MAT	20-12108-15213
R22	ERDS2TJ 333 T	MAT	20-12108-33313
R24	ERDS2TJ 682 T	MAT	20-12108-68213
R25	ERDS2TJ 332 T	MAT	20-12108-33213
R26	ERDS2TJ 561 T	MAT	20-12108-56113
R27	ERDS2TJ 223 T	MAT	20-12108-22313
R28	ERDS2TJ 153 T	MAT	20-12108-15313
R29	ERDS2TJ 104 T	MAT	20-12108-10413
R30	ERDS2TJ 155 T	MAT	20-12108-15513
R31	ERDS2TJ 103 T	MAT	20-12108-10313
R32	RP1/4B 5600Ω J	JFC	20-10260-56213
R33	ERDS2TJ 393 T	MAT	20-12108-39313
R34	ERDS2TJ 223 T	MAT	20-12108-22313
R35	ERDS2TJ 104 T	MAT	20-12108-10413
R36	ERDS2TJ 103 T	MAT	20-12108-10313
R37	ERDS2TJ 104 T	MAT	20-12108-10413
R38	ERDS2TJ 104 T	MAT	20-12108-10413
R39	ERDS2TJ 473 T	MAT	20-12108-47313
R40	ERDS2TJ 102 T	MAT	20-12108-10213
R41	ERDS2TJ 152 T	MAT	20-12108-15213
R42	ERDS2TJ 222 T	MAT	20-12108-22213
R43	ERDS2TJ 222 T	MAT	20-12108-22213
R44	ERDS2TJ 222 T	MAT	20-12108-22213
R45	ERDS2TJ 333 T	MAT	20-12108-33313
R46	ERDS2TJ 823 T	MAT	20-12108-82313
R47	ERDS2TJ 273 T	MAT	20-12108-27313
R48	ERDS2TJ 102 T	MAT	20-12108-10213
R49	ERDS2TJ 273 T	MAT	20-12108-27313
R50	ERDS2TJ 331 T	MAT	20-12108-33113
R51	ERDS2TJ 391 T	MAT	20-12108-39113
R52	ERDS2TJ 222 T	MAT	20-12108-22213
R53	ERDS2TJ 512 T	MAT	20-12108-51213
R54	ERDS2TJ 183 T	MAT	20-12108-18313
R55	ERDS2TJ 471 T	MAT	20-12108-47113
R56	ERDS2TJ 471 T	MAT	20-12108-47113
R57	ERDS2TJ 471 T	MAT	20-12108-47113
R58	ERDS2TJ 682 T	MAT	20-12108-68213
R59	ERDS2TJ 222 T	MAT	20-12108-22213
R60	ERDS2TJ 472 T	MAT	20-12108-47213
R61	ERDS2TJ 103 T	MAT	20-12108-10313
R62	ERDS2TJ 103 T	MAT	20-12108-10313
R63	ERDS2TJ 333 T	MAT	20-12108-33313
R64	ERDS2TJ 221 T	MAT	20-12108-22113
R65	ERDS2TJ 221 T	MAT	20-12108-22113
R66	ERDS2TJ 223 T	MAT	20-12108-22313
R67	ERDS2TJ 223 T	MAT	20-12108-22313
R68	ERDS2TJ 681 T	MAT	20-12108-68113
R69	ERDS2TJ 331 T	MAT	20-12108-33113
R71	ERDS2TJ 102 T	MAT	20-12108-10213
R72	ERDS2TJ 681 T	MAT	20-12108-68113
R73	ERDS2TJ 102 T	MAT	20-12108-10213
R74	ERDS2TJ 223 T	MAT	20-12108-22313
R75	ERDS2TJ 223 T	MAT	20-12108-22313
R76	ERDS2TJ 101 T	MAT	20-12108-10113
R77	ERDS2TJ 473 T	MAT	20-12108-47313
R78	ERDS2TJ 333 T	MAT	20-12108-33313
R79	ERDS2TJ 332 T	MAT	20-12108-33213
R80	ERDS2TJ 153 T	MAT	20-12108-15313
R81	ERDS2TJ 472 T	MAT	20-12108-47213
R82	ERDS2TJ 681 T	MAT	20-12108-68113
R83	ERDS2TJ 471 T	MAT	20-12108-47113
R84	ERDS2TJ 104 T	MAT	20-12108-10413
R85	ERDS2TJ 223 T	MAT	20-12108-22313
R86	ERDS2TJ 152 T	MAT	20-12108-15213
R87	ERDS2TJ 332 T	MAT	20-12108-33213
R88	ERDS2TJ 154 T	MAT	20-12108-15413
R89	ERDS2TJ 104 T	MAT	20-12108-10413
R90	ERDS2TJ 333 T	MAT	20-12108-33313
R91	ERDS2TJ 223 T	MAT	20-12108-22313
R92	ERDS2TJ 681 T	MAT	20-12108-68113
R93	ERDS2TJ 681 T	MAT	20-12108-68113
R94	ERDS2TJ 333 T	MAT	20-12108-33313
R95	ERDS2TJ 330 T	MAT	20-12108-33013
R96	ERDS2TJ 330 T	MAT	20-12108-33013
R97	ERDS2TJ 471 T	MAT	20-12108-47113
R98	ERDS2TJ 223 T	MAT	20-12108-22313
R99	ERDS2TJ 101 T	MAT	20-12108-10113
R100	ERDS2TJ 332 T	MAT	20-12108-33213
R101	ERDS2TJ 101 T	MAT	20-12108-10113
R102	ERDS2TJ 101 T	MAT	20-12108-10113
R103	ERDS2TJ 221 T	MAT	20-12108-22113
R104	ERDS2TJ 103 T	MAT	20-12108-10313
R105	ERDS2TJ 561 T	MAT	20-12108-56113
R106	ERDS2TJ 103 T	MAT	20-12108-10313
VR1	RG06UT2 5KΩ	COS	20-15549-50200
VR2	RG06UT2 200Ω	COS	20-15549-20100
VR3	RG06UT2 1KΩ	COS	20-15549-10200
VR4	RG06UT2 50KΩ	COS	20-15549-50300
VR5	RG06UT2 5KΩ	COS	20-15549-50200
VR6	RG06UT2 5KΩ	COS	20-15549-50200
VR7	RG06UT2 5KΩ	COS	20-15549-50200
VR8	RG06UT2 10KΩ	COS	20-15549-10300
VR9	RG06UT2 10KΩ	COS	20-15549-10300
VR10	RG06UT2 5KΩ	COS	20-15549-50200
<CAPACITORS>			
C1	ECEA 1EU 470B	MAT	20-23123-47625
C2	ECEA 1EU 470B	MAT	20-23123-47625
C3	ECQ-V1H 104JZ2	MAT	20-22137-10450
C5	ECEA 1EU 470B	MAT	20-23123-47625
C6	RT-HE40TKSL 470K	KCK	20-24518-47050
C7	RT-HE40TKSL 470K	KCK	20-24518-47050
C8	ECEA 1EU 331B	MAT	20-20123-33725
C9	ECQ-V1H 104JZ2	MAT	20-22137-10450
C10	RT-HE40TKSL 270K	KCK	20-24518-27050
C11	RT-HE70TKSL 241K	KCK	20-24518-24150
C12	RT-HE40TKSL 270K	KCK	20-24518-27050
C13	ECQ-B1H 103JZ4	MAT	20-22136-10350
C14	ECEA 2AU R47B	MAT	20-20123-47427
C15	ECEA 2AU 010B	MAT	20-20123-10572
C16	ECEA 1JU 100B	MAT	20-20123-10663

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*  16 SERIES COLOR MONITOR    *
*      PAL SUB-A BOARD        *
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NO.	DISCRIPTION	MFD.	PARTS-CODE
C17	ECEA 1JU 100B	MAT	20-20123-10663
C18	ECQ-B1H 103JZ4	MAT	20-22136-10350
C19	ECQ-B1H 333JZ4	MAT	20-22136-33350
C20	ECQ-B1H 103JZ4	MAT	20-22136-10350
C21	NP 2D 101JT	TYO	20-22393-10177
C22	RT-HE40TKSL 470K	KCK	20-24518-47050
C23	RT-HE40TKSL 390K	KCK	20-24518-39050
C24	RT-HE40TKSL 470K	KCK	20-24518-47050
C25	RT-HE40TKSL 150K	KCK	20-24518-15050
C26	RT-HE40TKSL 180K	KCK	20-24518-18050
C27	ECEA 1VU 330B	MAT	20-20125-33635
C28	ECEA 1VU 330B	MAT	20-20125-33635
C29	ECEA 1VU 330B	MAT	20-20125-33635
C30	ECQ-B1H 103JZ4	MAT	20-22136-10350
C31	ECQ-B1H 223JZ4	MAT	20-22136-22350
C32	ECQ-B1H 223JZ4	MAT	20-22136-22350
C33	ECEA 2AU 4R7	MAT	20-20123-47572
C34	ECQ-B1H 103JZ4	MAT	20-22136-10350
C35	RT-HE40TKSL 220K	KCK	20-24518-22050
C36	ECQ-B1H 103JZ4	MAT	20-22136-10350
C37	RT-HE40TKSL 220K	KCK	20-24518-22050
C38	ECEA 1JU 100B	MAT	20-20123-10663
C39	ECEA 1EU 331B	MAT	20-20123-33725
C40	ECQ-V1H 104JZ2	MAT	20-22137-10450
C44	NP 2D 101JT	TYO	20-22393-10177
C45	NP 2D 101JT	TYO	20-22393-10177
C46	NP 2D 101JT	TYO	20-22393-10177
C50	ECEA 1JU 100B	MAT	20-20123-10663
C51	ECEA 1JU 100B	MAT	20-20123-10663
C52	ECEA 1JU 100B	MAT	20-20123-10663
C53	ECQ-V1H 104JZ2	MAT	20-22137-10450
C54	RT-HE40TKSL 150K	KCK	20-24518-15050
C55	RT-HE40TKSL 750K	KCK	20-24518-75050
C56	NP 2D 102JT	TYO	20-22393-10277
C57	ECEA 1EU 470B	MAT	20-23123-47625
C60	ECEA 1EU 470B	MAT	20-23123-47625
C61	ECEA 1EU 470B	MAT	20-23123-47625
C62	ECQ-B1H 103JZ4	MAT	20-22136-10350
C63	RT-HE40TKSL 750K	KCK	20-24518-75050
C65	ECEA 1EU 470B	MAT	20-23123-47625
C67	ECEA 1HU 100B	MAT	20-20125-10650
C68	ECQ-V1H 104JZ2	MAT	20-22137-10450
C69	ECQ-V1H 104JZ2	MAT	20-22137-10450
C70	ECEA 1HU 100B	MAT	20-20125-10650
C71	RT-HE40TKSL 330K	KCK	20-24518-33050
C72	TC04 SMC16VB33	NCH	20-20574-33616
C73	ECEA 1HN 100SB	MAT	20-20129-10625
C74	ECEA 1HN 100SB	MAT	20-20129-10625
C75	TC04 SMC16VB33	NCH	20-20574-33616
C76	ECEA 1HU 100B	MAT	20-20125-10650

<INDUCTANCE COILS>

L1	ST-901285A	IKE	20-40985-12851
L2	LF1-390K	SON	20-40331-39000
L3	LF4-4R7K	SON	20-40334-04700
L4	LF1-560K	SON	20-40331-00300
L5	LF1-330K	SON	20-40331-00200
L6	LF4-8R2K	SON	20-40334-08200
L7	ST-9975	IKE	20-40985-99750
L8	ST-9976	IKE	20-40985-99760
L9	LF1-390K	SON	20-40331-39000
L10	LF1-390K	SON	20-40331-39000
L11	LF1-390K	SON	20-40331-39000
L12	ST-901045	IKE	20-40985-10450
L13	ST-901046	IKE	20-40985-10460

<DELAY LINES>

DL1	ELT-10Z214	MAT	20-44122-00300
DL2	EFDEN645A11	MAT	20-44121-00200

<SWITCH>

S1	SS-12SBP2	NKA	20-36002-02300

<X'TAL>

X1	4.43361875MHz(HC-6/W)	KIN	20-45003-00400

<CONNECTORS>

CNS1	5145-10AH	NMO	20-30753-00102
CNS2	5145-10AH	NMO	20-30753-00102
CN301	DF1-4P-2.5DSA	HIR	20-30079-00402

<TEST POINT>

TP1	TBPS	IKE	

****
* 16 SERIES COLOR MONITOR *
* CRT SOCKET BOARD COMMON *
****

NO.	DISCRIPTION	MFD.	PARTS-CODE
<INTEGRATED CIRCUITS>			
IC101	AN6573	MAT	20-01004-06550
IC201	AN6573	MAT	20-01004-06550
IC301	AN6573	MAT	20-01004-06550
<TRANSISTORS>			
Tr101	2SC1815Y-TPE2	TOS	20-02824-05702
Tr102	2SC3790	SYO	20-02824-15100
Tr103	2SC1815Y-TPE2	TOS	20-02824-05702
Tr201	2SC1815Y-TPE2	TOS	20-02824-05702
Tr202	2SC3790	SYO	20-02824-15100
Tr203	2SC1815Y-TPE2	TOS	20-02824-05702
Tr301	2SC1815Y-TPE2	TOS	20-02824-05702
Tr302	2SC3790	SYO	20-02824-15100
Tr303	2SC1815Y-TPE2	TOS	20-02824-05702
<DIODES>			
D102	1S1588-TPB2	TOS	20-03812-01201
D103	1S1588-TPB2	TOS	20-03812-01201
D104	1S1588-TPB2	TOS	20-03812-01201
D202	1S1588-TPB2	TOS	20-03812-01201
D203	1S1588-TPB2	TOS	20-03812-01201
D204	1S1588-TPB2	TOS	20-03812-01201
D302	1S1588-TPB2	TOS	20-03812-01201
D303	1S1588-TPB2	TOS	20-03812-01201
D304	1S1588-TPB2	TOS	20-03812-01201
<RESISTORS>			
R101	ERDS2TJ 223 T	MAT	20-12108-22313
R102	ERDS2TJ 681 T	MAT	20-12108-68113
R103	ERDS2TJ 101 T	MAT	20-12108-10113
R104	ERDS2TJ 470 T	MAT	20-12108-47013
R107	ERG-2ANJ 222 H	MAT	20-11025-22243
R108	ERG-2ANJ 222 H	MAT	20-11025-22243
R109	ERDS1VJ 104 T	MAT	20-12106-10433
R110	ERDS2TJ 562 T	MAT	20-12108-56213
R111	ERDS2TJ 153 T	MAT	20-12108-15313
R112	ERDS2TJ 474 T	MAT	20-12108-47413
R113	ERDS2TJ 471 T	MAT	20-12108-47113
R114	ERDS2TJ 101 T	MAT	20-12108-10113
R115	ERDS2TJ 105 T	MAT	20-12108-10513
R116	ERDS2TJ 333 T	MAT	20-12108-33313
R117	ERDS2TJ 101 T	MAT	20-12108-10113
R201	ERDS2TJ 223 T	MAT	20-12108-22313
R202	ERDS2TJ 681 T	MAT	20-12108-68113
R203	ERDS2TJ 101 T	MAT	20-12108-10113
R204	ERDS2TJ 470 T	MAT	20-12108-47013
R207	ERG-2ANJ 222 H	MAT	20-11025-22243
R208	ERG-2ANJ 222 H	MAT	20-11025-22243
R209	ERDS1VJ 104 T	MAT	20-12106-10433
R210	ERDS2TJ 562 T	MAT	20-12108-56213
R211	ERDS2TJ 153 T	MAT	20-12108-15313
R212	ERDS2TJ 474 T	MAT	20-12108-47413
R213	ERDS2TJ 471 T	MAT	20-12108-47113
R214	ERDS2TJ 101 T	MAT	20-12108-10113
R215	ERDS2TJ 105 T	MAT	20-12108-10513
R216	ERDS2TJ 333 T	MAT	20-12108-33313
R217	ERDS2TJ 101 T	MAT	20-12108-10113
R301	ERDS2TJ 223 T	MAT	20-12108-22313
R302	ERDS2TJ 681 T	MAT	20-12108-68113
R303	ERDS2TJ 101 T	MAT	20-12108-10113
R304	ERDS2TJ 470 T	MAT	20-12108-47013
R307	ERG-2ANJ 222 H	MAT	20-11025-22243
R308	ERG-2ANJ 222 H	MAT	20-11025-22243
R309	ERDS1VJ 104 T	MAT	20-12106-10433
R310	ERDS2TJ 562 T	MAT	20-12108-56213
R311	ERDS2TJ 153 T	MAT	20-12108-15313
R312	ERDS2TJ 474 T	MAT	20-12108-47413
R313	ERDS2TJ 471 T	MAT	20-12108-47113
R314	ERDS2TJ 101 T	MAT	20-12108-10113
R315	ERDS2TJ 105 T	MAT	20-12108-10513
R316	ERDS2TJ 333 T	MAT	20-12108-33313
R317	ERDS2TJ 101 T	MAT	20-12108-10113
R402	ERDS1VJ 100 T	MAT	20-12106-10033
R403	ERDS2TJ 101 T	MAT	20-12108-10113
R404	ERDS1VJ 100 T	MAT	20-12106-10033
R405	ERDS2TJ 100 T	MAT	20-12108-10013

NO.	DISCRIPTION	MFD.	PARTS-CODE
<CAPACITORS>			
C101	ECEA 1JU 100B	MAT	20-20123-10663
C102	ECEA 1EU 470B	MAT	20-20123-47625
C106	ECQ-V1H 104JZ2	MAT	20-22137-10450
C107	ECQ-V1H 104JZ2	MAT	20-22137-10450
C108	ECQ-B1H 333JZ4	MAT	20-22136-33350
C201	ECEA 1JU 100B	MAT	20-20123-10663
C202	ECEA 1EU 470B	MAT	20-20123-47625
C206	ECQ-V1H 104JZ2	MAT	20-22137-10450
C207	ECQ-V1H 104JZ2	MAT	20-22137-10450
C208	ECQ-B1H 333JZ4	MAT	20-22136-33350
C301	ECEA 1JU 100B	MAT	20-20123-10663
C302	ECEA 1EU 470B	MAT	20-20123-47625
C306	ECQ-V1H 104JZ2	MAT	20-22137-10450
C307	ECQ-V1H 104JZ2	MAT	20-22137-10450
C308	ECQ-B1H 333JZ4	MAT	20-22136-33350
C401	GC01-103YZB	TDK	20-24181-10300
C402	ECEA 2ES 100	MAT	20-20122-10678
<INDUCTANCE COILS>			
L102	LF1-330K	SON	20-40331-39000
L202	LF1-330K	SON	20-40331-39000
L302	LF1-330K	SON	20-40331-39000
<SPARK GAPS>			
SG101	Y08Z-230B	SKO	20-59003-00301
SG201	Y08Z-230B	SKO	20-59003-00301
SG301	Y08Z-230B	SKO	20-59003-00301
SG401	Y08Z-230B	SKO	20-59003-00301
<TAD>			
TB1	62409-1	AMP	20-30801-02400
<CONNECTOR>			
CN102	DF1-10P-2.5DSA	HIR	20-30079-01002
CN915	1951P	NMO	20-30561-00100
CN	1380-TL	NMO	20-30562-00100
<RADIATORS>			
	IC-1625-ST (For Tr102)	RYO	20-55506-00100
	IC-1625-ST (For Tr202)	RYO	20-55506-00100
	IC-1625-ST (For Tr302)	RYO	20-55506-00100
<TEST POINTS>			
TP101	TBPS	IKE	
TP201	TBPS	IKE	
TP301	TBPS	IKE	
TP401	TBPS	IKE	

****
* 16 SERIES COLOR MONITOR *
* 14" CRT SOCKET BOARD *
****

NO.	DISCRIPTION		MFR.	PARTS-CODE
<RESISTORS>				
R105	ERDS2TJ	222 T	MAT	20-12108-22213
R106	ERDS2TJ	220 T	MAT	20-12108-22013
R205	ERDS2TJ	222 T	MAT	20-12108-22213
R206	ERDS2TJ	150 T	MAT	20-12108-15013
R305	ERDS2TJ	222 T	MAT	20-12108-22213
R306	ERDS2TJ	220 T	MAT	20-12108-22013
<CAPACITORS>				
C103	NP 2D	681JT	TYO	20-22393-68177
C104	NP 2D	361JT	TYO	20-22393-36177
C105	NP 2D	122JT	TYO	20-22393-12277
C204	NP 2D	361JT	TYO	20-22393-36177
C205	NP 2D	152JT	TYO	20-22393-15277
C303	NP 2D	621JT	TYO	20-22393-62177
C304	NP 2D	361JT	TYO	20-22393-36177
C305	NP 2D	122JT	TYO	20-22393-12277
<CRT SOCKET>				
V1	XB-0865		SMK	20-54307-00100

****
* 16 SERIES COLOR MONITOR *
* 20" CRT SOCKET BOARD *
****

NO.	DISCRIPTION		MFR.	PARTS-CODE
<RESISTORS>				
R105	ERDS2TJ	222 T	MAT	20-12108-22213
R106	ERDS2TJ	470 T	MAT	20-12108-47013
R205	ERDS2TJ	222 T	MAT	20-12108-22213
R206	ERDS2TJ	470 T	MAT	20-12108-47013
R305	ERDS2TJ	222 T	MAT	20-12108-22213
R306	ERDS2TJ	220 T	MAT	20-12108-22013
<CAPACITORS>				
C103	NP 2D	821JT	TYO	20-22393-82177
C104	NP 2D	361JT	TYO	20-22393-36177
C105	NP 2D	561JT	TYO	20-22393-56177
C203	NP 2D	102JT	TYO	20-22393-10277
C204	NP 2D	361JT	TYO	20-22393-36177
C205	NP 2D	471JT	TYO	20-22393-47177
C303	NP 2D	561JT	TYO	20-22393-56177
C304	NP 2D	361JT	TYO	20-22393-36177
C305	NP 2D	122JT	TYO	20-22393-12277
<CRT SOCKET>				
V1	TJS35030		MAT	20-54309-00100

****
* 16 SERIES COLOR MONITOR *
* FRONT LEFT BOARD *
****

NO.	DISCRIPTION	MFD.	PARTS-CODE
<DIODES>			
D1	1S1588-TPB2	TOS	20-03812-01201
D2	1S1588-TPB2	TOS	20-03812-01201
D3	1S1588-TPB2	TOS	20-03812-01201
D4	1S1588-TPB2	TOS	20-03812-01201
D5	1S1588-TPB2	TOS	20-03812-01201
D6	1S1588-TPB2	TOS	20-03812-01201
D7	SLP960C	SYO	20-03553-00900
D8	SLP960C	SYO	20-03553-00900
D901	TLG226	TOS	20-03572-00330
<RESISTORS>			
R1	ERDS1VJ 471 T	MAT	20-12106-47133
R2	ERDS2TJ 103 T	MAT	20-12108-10313
R3	ERDS2TJ 472 T	MAT	20-12108-47213
R4	ERDS2TJ 103 T	MAT	20-12108-10313
R5	ERDS2TJ 103 T	MAT	20-12108-10313
R6	ERDS2TJ 472 T	MAT	20-12108-47213
R7	ERDS2TJ 103 T	MAT	20-12108-10313
R8	ERDS2TJ 472 T	MAT	20-12108-47213
R9	ERDS2TJ 753 T	MAT	20-12108-75313
R10	ERDS2TJ 334 T	MAT	20-12108-33413
R11	ERDS2TJ 104 T	MAT	20-12108-10413
R12	ERDS2TJ 753 T	MAT	20-12108-75313
R13	ERDS2TJ 334 T	MAT	20-12108-33413
R14	ERDS2TJ 104 T	MAT	20-12108-10413
R15	ERDS2TJ 753 T	MAT	20-12108-75313
R16	ERDS2TJ 334 T	MAT	20-12108-33413
R17	ERDS2TJ 104 T	MAT	20-12108-10413
R18	ERDS2TJ 152 T	MAT	20-12108-15213
VR1	RG06UT2 10KΩ	COS	20-15549-10300
VR2	RG06UT2 10KΩ	COS	20-15549-10300
VR3	RG06UT2 10KΩ	COS	20-15549-10300
VR4	RG06UT2 10KΩ	COS	20-15549-10300
VR5	RG06UT2 10KΩ	COS	20-15549-10300
VR6	RG06UT2 10KΩ	COS	20-15549-10300
<CAPACITOR>			
C1	TC04KMA1GVB47-LS5	MAT	20-20575-47616
<SWITCHES>			
S1	S-J0235	SMK	20-36002-01090
S2	S-J0235	SMK	20-36002-01090
S3	S-J0235	SMK	20-36002-01090
S4	S-J0235	SMK	20-36002-01090
S5	S-J0235	SMK	20-36002-01090
<CONNECTOR>			
CN209	DF1-15P-2.5DSA	HIR	20-30079-01502

****
* 16 SERIES COLOR MONITOR *
* FRONT RIGHT BOARD *
****

NO.	DISCRIPTION	MFD.	PARTS-CODE
<DIODES>			
D1	TLY-226	TOS	20-03576-01000
D2	TLY-226	TOS	20-03576-01000
D3	TLY-226	TOS	20-03576-01000
D4	TLY-226	TOS	20-03576-01000
<RESISTORS>			
R1	ERDS2TJ 152 T	MAT	20-12108-15213
R2	ERDS2TJ 152 T	MAT	20-12108-15213
R3	ERDS2TJ 152 T	MAT	20-12108-15213
R4	ERDS2TJ 152 T	MAT	20-12108-15213
R6	ERDS2TJ 103 T	MAT	20-12108-10313
R7	ERDS2TJ 103 T	MAT	20-12108-10313
VR1	RG06UT2 10KΩ	COS	20-15549-10300
VR2	ST-901447	ALP	20-15995-14470
VR3	RG06UT2 10KΩ	COS	20-15549-10300
VR4	ST-901447	ALP	20-15995-14470
VR5	RG06UT2 10KΩ	COS	20-15549-10300
VR6	ST-901447	ALP	20-15995-14470
VR7	RG06UT2 10KΩ	COS	20-15549-10300
VR8	ST-901447	ALP	20-15995-14470
<CAPACITOR>			
C1	ECEA 1EU 470B	MAT	20-20123-47625
<SWITCHES>			
S1	ST-901551	ALP	20-34995-15510
S2	ST-901551	ALP	20-34995-15510
S3	ST-901551	ALP	20-34995-15510
S4	ST-901551	ALP	20-34995-15510
S5	ST-901551	ALP	20-34995-15510
S6	ST-901551	ALP	20-34995-15510
S7	ST-901551	ALP	20-34995-15510
S8	ST-901551	ALP	20-34995-15510
S9	ST-901551	ALP	20-34995-15510
S10	ST-901551	ALP	20-34995-15510
S11	ST-901551	ALP	20-34995-15510
S12	ST-901551	ALP	20-34995-15510
<CONNECTOR>			
CN210	DF1-20P-2.5DSA	HIR	20-30079-02002
<OTHERS>			
	ST-901421D	HIR	20-66995-14214
	ST-9686D-1(For S1~S12)	IKE	20-34995-96868

1 なべ小ねじ

NM PAN HEAD SCREW

BNM PAN HEAD SCREW (BLACK)

2 さら小ねじ

SM FLAT HEAD SCREW

BSM FLAT HEAD SCREW (BLACK)

3 丸さら小ねじ

MM OVAL COUNTERSUNK HEAD SCREW

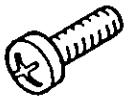
BMM OVAL COUNTERSUNK HEAD SCREW (BLACK)

4 トラスねじ

TM TRUSS HEAD SCREW

BTM TRUSS HEAD SCREW (BLACK)

5 バインドねじ

NMB  BINDING HEAD SCREW

8 セムスねじ

NMS PAN HEAD SCREW AND WASHER ASS'Y

9 トラスタッピングねじ

TH—TS TRUSS HEAD TAPPING SCREW

10 バインド タッピング ねじ

NMB—TS BINDING HEAD TAPPING SCREWS

11 ホロセット

HM HEXAGON SOCKET SET SCREW

12 ソケット ヘッド キャップ スクリュー

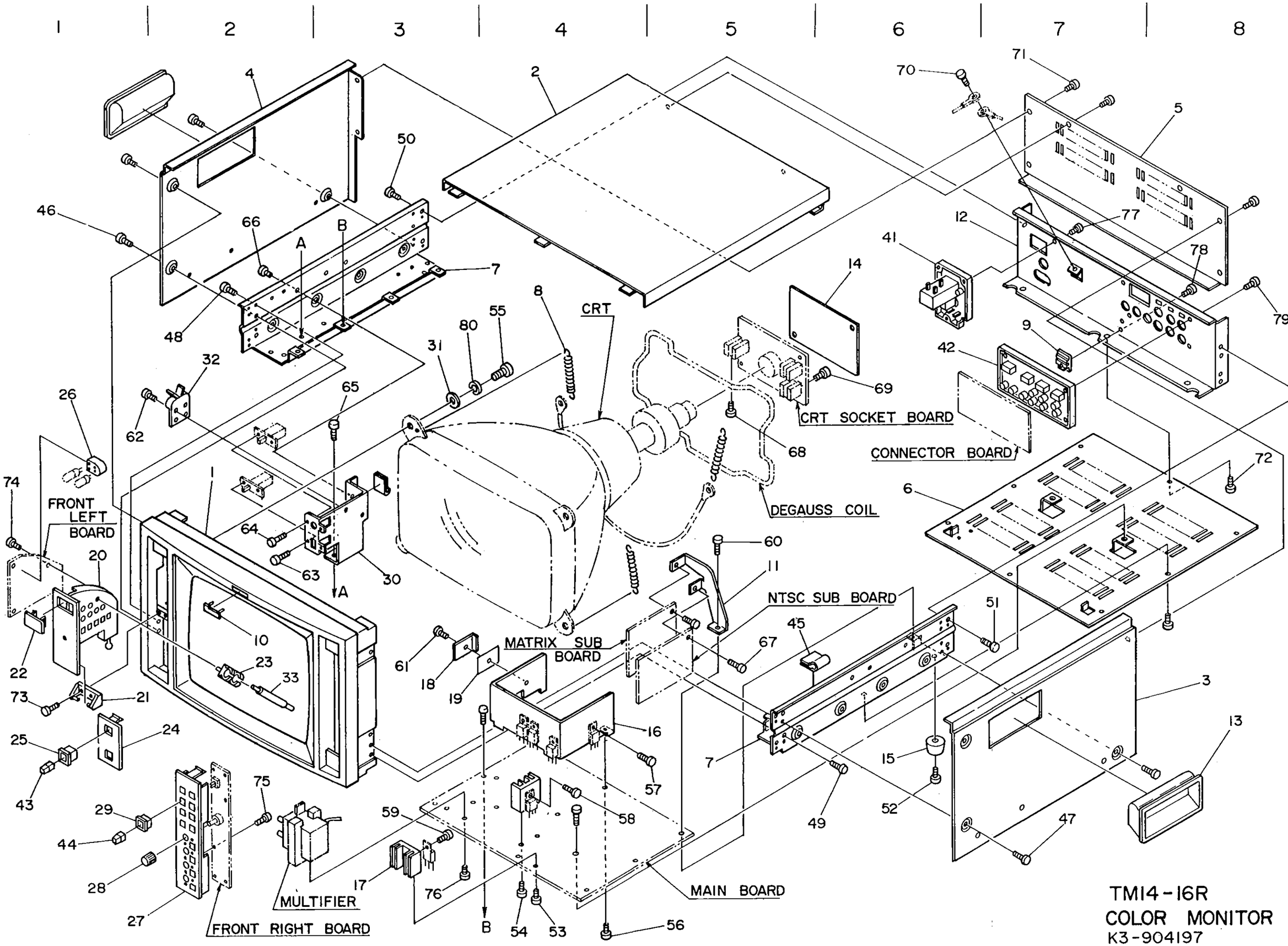
SHM HEXAGON SOCKET HEAD CAP SCREW

13 なべ タッピング ねじ

NM—TS PAN HEAD TAPPING SCREWS

14 セムスねじ

NMXW PAN HEAD SCREW AND DOUBLE WASHER ASS'Y



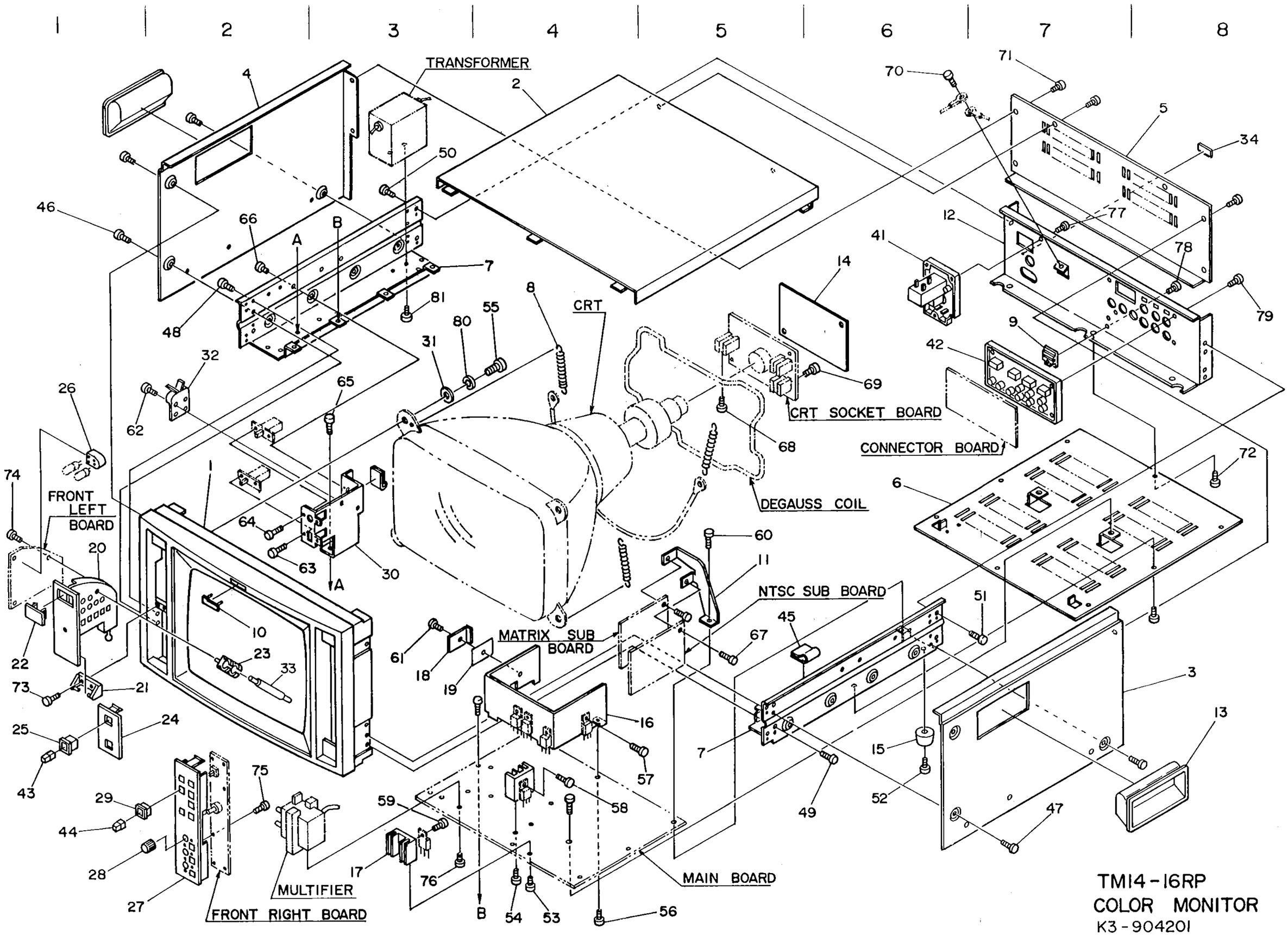
TM14-16R
COLOR MONITOR
K3-904197

IKEGAMI TSUSHINKI CO. LTD

NO.	INDEX	NAME	PARTS NO.	Qty
1	2-C	ESCUTCHEON	M1-908894	1
2	4-A	TOP COVER	M1-910147	1
3	8-E	SIDE COVER(R)	M1-910148	1
4	2-A	SIDE COVER(L)	M1-910148	1
5	8-A	REAR PANEL	M2-910149	1
6	6-D	BOTTOM PANEL	M2-910150	1
7	5-E	FRAME	M2-910152	2
8	4-B	SPRING	M4-279433A	4
9	7-C	BOARD SUPPORT	M4-911261	1
10	2-D	IKEGAMI MARK	M4-907567	1
11	5-D	BOARD BRACKET	M4-910989	1
12	6-B	CONNECTOR PANEL	M2-910725	1
13	8-E	HANDLE	M2-911020	2
14	6-B	CRT SOCKET COVER	M4-911208	1
15	6-E	FOOT	M4-908267	4
16	5-E	HEAT SINK (A)	M3-910556C	1
17	3-F	HEAT SINK (B)	M4-910327	2
18	3-E	SAPPORT BRACKET	M4-910794	1
19	3-E	SPACER	M4-908505	1
20	1-D	LEFT PANEL	M2-910549	1
21	1-E	HINGE (A)	M4-910548	1
22	1-E	TALLY	M4-909001	1
23	2-E	DRIVER HOLDER	M4-910498	1
24	2-E	SWITCH PANEL	M4-909955	1
25	1-E	SWITCH GUIDE	M4-908730	2
26	1-C	LED SUPPORT	M4-910311	1
27	1-F	RIGHT PANEL	M2-910835	1
28	1-F	VR KNOB	M4-908887	4
29	1-F	SWITCH GUIDE	M4-908730	12
30	3-D	SWITCH METAL	M3-909912	1
31	3-C	WASHER	HW6	4
32	2-C	LATCH (A)	TL 191 (1533)	1
33	2-E	DRIVER	EAT-1	1
34				
35				

NO.	INDEX	NAME	PARTS NO.	Qty
41	6-B	AC ASS'Y	ST 901439	1
42	6-C	CONNECTOR ASS'Y	ST 901438	1
43	1-E	PUSH BUTTON	ST 9686D-1	2
44	1-F	PUSH BUTTON	ST 9686D-1	12
45	5-D	CORD CLAMP	NO.3484-1000	2
46	1-B	SCREW	NMB4-6	3
47	7-F	〃	NMB4-6	3
48	2-B	〃	NMB4-12	2
49	6-F	〃	NMB4-12	2
50	3-A	SCREW	NMB4-6	2
51	7-D	SCREW	NMB4-6	2
52	6-F	〃	NMB4-14	4
53	4-F	〃	NMB4-6	1
54	4-F	〃	NMB4-6	1
55	4-B	SCREW	NM6-16	4
56	5-F	SCREW	NMB3-6	4
57	5-E	〃	NMB3-8	4
58	4-F	〃	NMB3-8	1
59	3-F	〃	NMB3-8	1
60	5-D	SCREW	NMB3-6	8
61	3-E	SCREW	NMB3-12	1
62	1-C	〃	NMB3-8	2
63	2-D	〃	NMB3-6	2
64	2-D	〃	NMB3-6	2
65	3-C	SCREW	NMB3-6	1
66	2-B	SCREW	NMB3-6	1
67	5-D	〃	NMB3-6	2
68	5-C	〃	NMB3-6	3
69	6-C	〃	NMB3-6	3
70	6-A	SCREW	NMB3-8	1
71	7-A	SCREW	NMB3-6	6
72	8-C	〃	NMB3-6	7
73	1-E	〃	NMB2.6-8	2
74	1-C	〃	NMB-TS3-10	4
75	2-E	SCREW	NMB-TS3-10	6
76	3-F	SCREW	NMB-TS3-10	3
77	7-B	〃	NMB-TS3-10	3
78	8-B	〃	NMB-TS3-10	1
79	8-B	SCREW	NMB-TS3-10	4
80	3-B	WASHER	SW6	4

TM14-16R
COLOR MONITOR
K3-904198
IKEGAMI TSUSHINKI CO.LTD



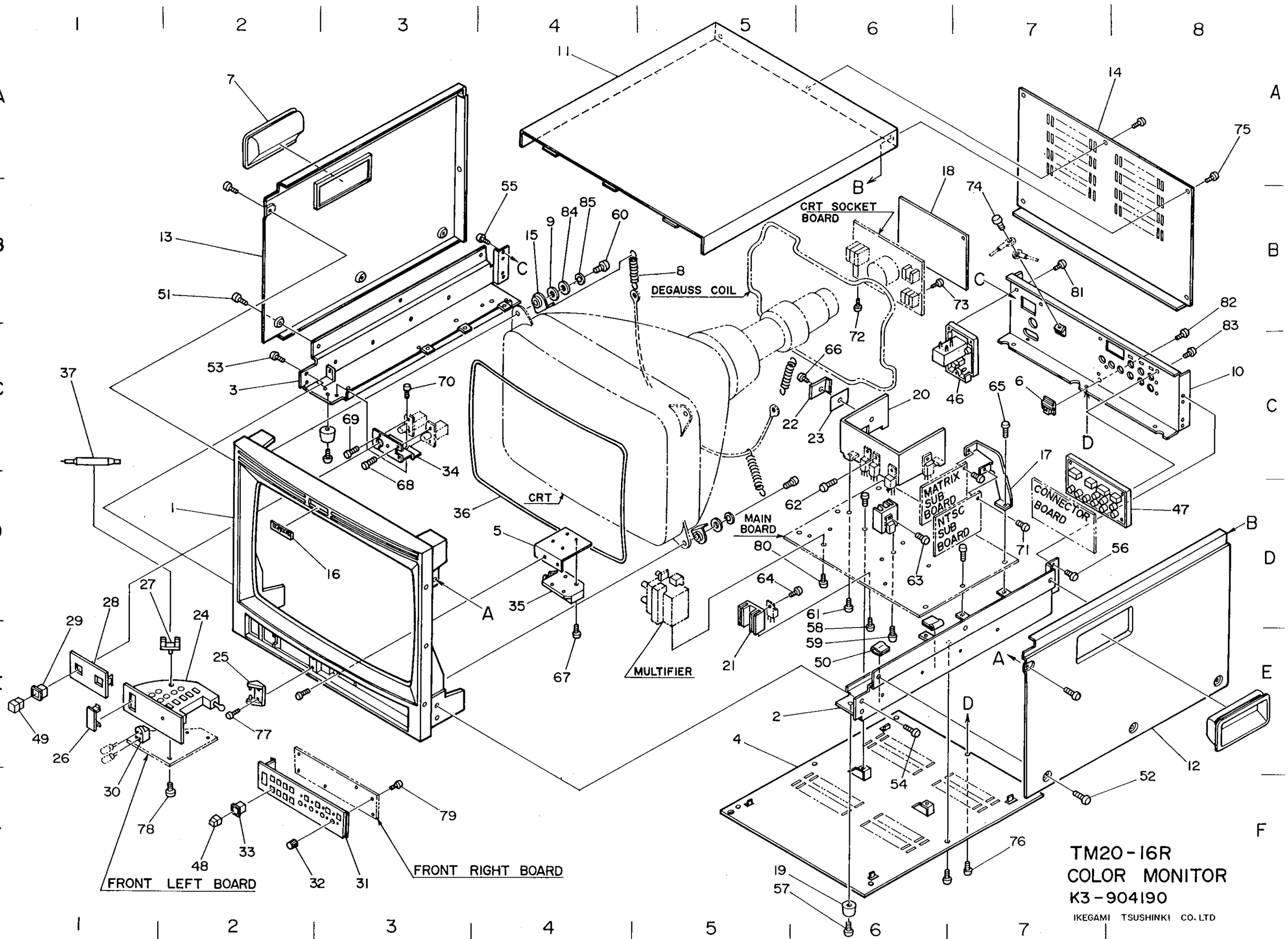
TM14-16RP
COLOR MONITOR
K3-904201

IKEGAMI TSUSHINKI CO. LTD

NO.	INDEX	NAME	PARTS NO.	Qty
1	2-C	ESCUTCHEON	M1-908894	1
2	4-A	TOP COVER	M1-910147	1
3	8-E	SIDE COVER(R)	M1-910148	1
4	2-A	SIDE COVER(L)	M1-910148	1
5	8-A	REAR PANEL	M2-910149	1
6	6-D	BOTTOM PANEL	M2-910150	1
7	5-E	FRAME	M2-910152	2
8	4-B	SPRING	M4-279433A	4
9	7-C	BOARD SUPPORT	M4-911261	1
10	2-D	IKEGAMI MARK	M4-907567	1
11	5-D	BOARD BRACKET	M4-910989	1
12	6-B	CONNECTOR PANEL	M2-910725	1
13	8-E	HANDLE	M2-911020	2
14	6-B	CRT SOCKET COVER	M4-911208	1
15	6-E	FOOT	M4-908267	4
16	5-E	HEAT SINK (A)	M3-910556C	1
17	3-F	HEAT SINK (B)	M4-910327	2
18	3-E	SAPPORT BRACKET	M4-910794	1
19	3-E	SPACER	M4-908505	1
20	1-D	LEFT PANEL	M2-910549	1
21	1-E	HINGE (A)	M4-910548	1
22	1-E	TALLY	M4-909001	1
23	2-E	DRIVER HOLDER	M4-910498	1
24	2-E	SWITCH PANEL	M4-909955	1
25	1-E	SWITCH GUIDE	M4-908730	2
26	1-C	LED SUPPORT	M4-910311	1
27	1-F	RIGHT PANEL	M2-910835	1
28	1-F	VR KNOB	M4-908887	3
29	1-F	SWITCH GUIDE	M4-908730	10
30	3-D	SWITCH METAL	M3-909912	1
31	3-C	WASHER	HW6	4
32	2-C	LATCH (A)	TL 191 (1533)	1
33	2-E	DRIVER	EAT-1	1
34	8-A	FUSE LABEL	M4-911677	1
35				

NO.	INDEX	NAME	PARTS NO.	Qty
41	6-B	AC ASS'Y	ST 901439	1
42	6-C	CONNECTOR ASS'Y	ST 901438	1
43	1-E	PUSH BUTTON	ST 9686D-1	2
44	1-F	PUSH BUTTON	ST 9686D-1	10
45	5-D	CORD CLAMP	NO.3484-1000	2
46	1-B	SCREW	NMB4-6	3
47	7-F	〃	NMB4-6	3
48	2-B	〃	NMB4-12	2
49	6-F	〃	NMB4-12	2
50	3-A	SCREW	NMB4-6	2
51	7-D	SCREW	NMB4-6	2
52	6-F	〃	NMB4-14	4
53	4-F	〃	NMB4-6	1
54	4-F	〃	NMB4-6	1
55	4-B	SCREW	NM6-16	4
56	5-F	SCREW	NMB3-6	4
57	5-E	〃	NMB3-8	4
58	4-F	〃	NMB3-8	1
59	3-F	〃	NMB3-8	1
60	5-D	SCREW	NMB3-6	8
61	3-E	SCREW	NMB3-12	1
62	1-C	〃	NMB3-8	2
63	2-D	〃	NMB3-6	2
64	2-D	〃	NMB3-6	2
65	3-C	SCREW	NMB3-6	1
66	2-B	SCREW	NMB3-6	1
67	5-D	〃	NMB3-6	2
68	5-C	〃	NMB3-6	3
69	6-C	〃	NMB3-6	3
70	6-A	SCREW	NMB3-8	1
71	7-A	SCREW	NMB3-6	6
72	8-C	〃	NMB3-6	7
73	1-E	〃	NMB2.6-8	2
74	1-C	〃	NMB-TS3-10	4
75	2-E	SCREW	NMB-TS3-10	6
76	3-F	SCREW	NMB-TS3-10	3
77	7-B	〃	NMB-TS3-10	3
78	8-B	〃	NMB-TS3-10	1
79	8-B	SCREW	NMB-TS3-10	4
80	3-B	WASHER	SW6	4
81	3-B	SCREW	NMB4-8	2

TM14-16RP
COLOR MONITOR
K3-904202
IKEGAMI TSUSHINKI CO.LTD



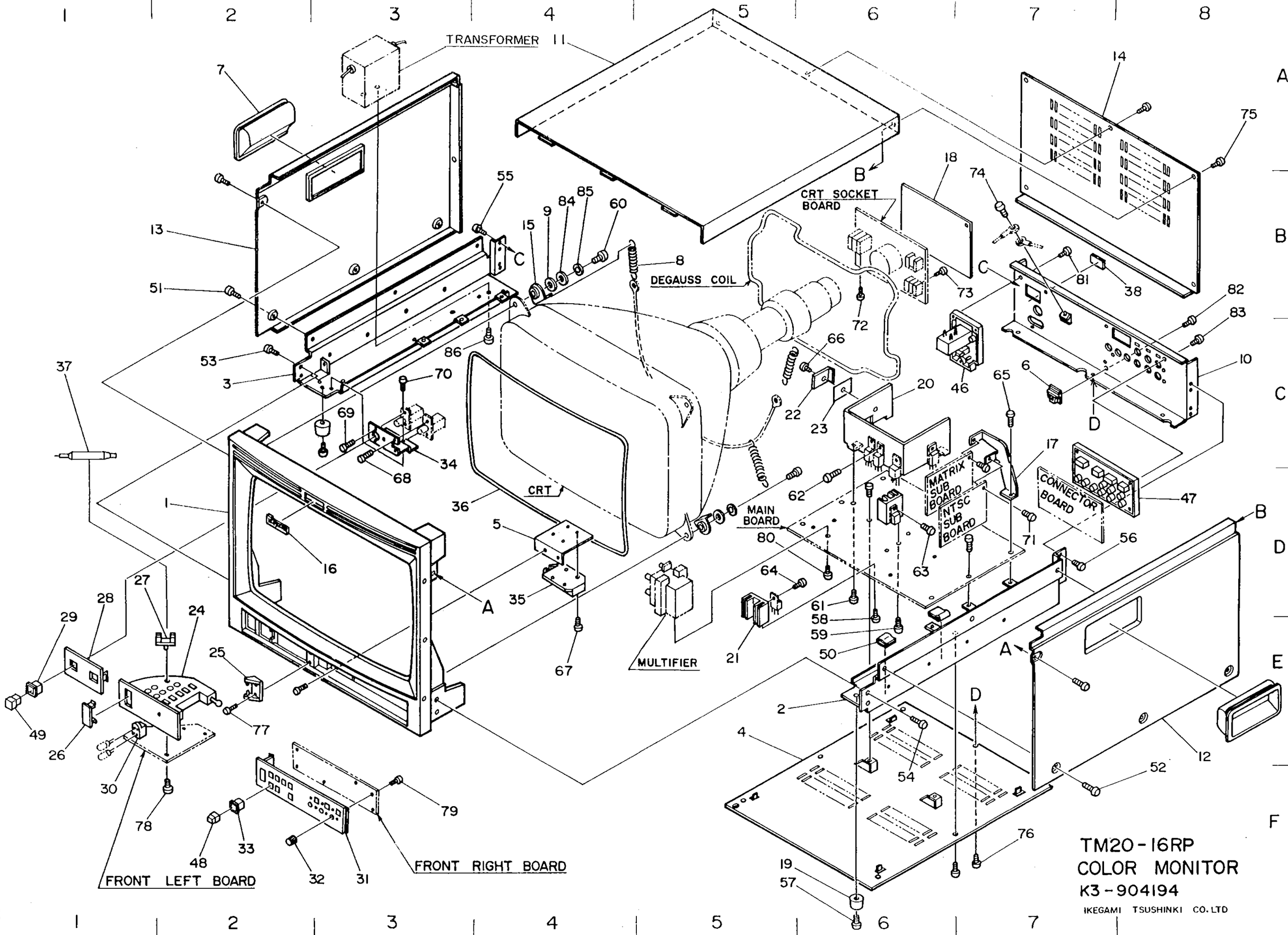
TM20-16R
COLOR MONITOR
K3-904190

IKEGAMI TSUSHINKI CO. LTD

NO.	INDEX	NAME	PARTS NO.	Qty
1	2-D	ESCUTCHEON	M1-910698	1
2	5-E	FRAME (R)	M1-910387	1
3	2-C	FRAME (L)	M1-910387	1
4	5-E	BOTTOM PANEL	M3-910388	1
5	4-D	LATCH METAL	M4-910389	1
6	7-C	BOARD SUPPORT	M4-911261	1
7	2-A	HANDLE	M2-911020	2
8	5-B	SPRING	M4-279433A	4
9	4-B	CRT WASHER	M4-281236A	4
10	8-C	CONNECTOR PANEL	M2-910725	1
11	4-A	TOP COVER	M2-910473	1
12	8-E	SIDE COVER (R)	M2-910474	1
13	2-B	SIDE COVER (L)	M2-910474	1
14	8-A	REAR PANEL	M3-910475	1
15	4-B	GROUND WASHER	M4-910974	4
16	3-D	IKEGAMI MARK	D-45	1
17	7-C	BOARD BRACKT	M4-910989	1
18	6-A	CRT SOCKET COVER	M4-911208	1
19	5-F	FOOT	M4-908267	4
20	6-C	HEAT SINK (A)	M3-910556C	1
21	5-E	HEAT SINK (B)	M4-910327	2
22	5-C	SAPPORT BRACKET	M4-910794	1
23	6-C	SPACER	M4-908505	1
24	2-D	LEFT PANEL	M2-910549	1
25	2-E	HINGE (A)	M4-910548	1
26	1-E	TALLY	M4-909001	1
27	1-D	DRIVER HOLDER	M4-910498	1
28	1-D	SWITCH PANEL	M4-909955	1
29	1-D	SWITCH GUIDE	M4-908730	2
30	1-F	LED SUPPORT	M4-910311	1
31	3-F	RIGHT PANEL	M2-910835	1
32	3-F	VR KNOB	M4-908887	4
33	2-F	SWITCH GUIDE	M4-908730	12
34	3-C	SWITCH METAL	M4-910854	1
35	4-D	LATCH (A)	TL191(1533)	1
36	3-D	PACKING	KG-CR5890	1
37	1-C	DRIVER	EAT-1	1
38				
39				
40				
41				

NO.	INDEX	NAME	PARTS NO.	Qty
46	7-C	AC ASS'Y	ST 901439	1
47	8-D	CONNECTOR ASS'Y	ST-901438	1
48	2-F	PUSH BUTTON	ST-9686D-1	12
49	3-D	PUSH BUTTON	ST 9686D-1	2
50	6-E	CORD CLAMP	NO.3484-1000	2
51	2-B	SCREW	NMB4-6	4
52	8-F	〃	NMB4-6	4
53	2-C	〃	NMB4-12	2
54	6-F	〃	NMB4-12	2
55	4-B	SCREW	NMB4-6	2
56	8-D	SCREW	NMB4-6	2
57	5-F	〃	NMB4-14	4
58	6-E	〃	NMB4-6	1
59	6-E	〃	NMB4-6	1
60	4-B	SCREW	NM6-16	4
61	6-D	SCREW	NMB3-6	4
62	5-D	〃	NMB3-8	4
63	6-D	〃	NMB3-8	1
64	5-D	〃	NMB3-8	1
65	7-C	SCREW	NMB3-6	8
66	6-C	SCREW	NMB3-12	1
67	4-E	〃	NMB3-8	2
68	3-D	〃	NMB3-6	2
69	3-C	〃	NMB3-6	2
70	3-C	SCREW	NMB3-6	1
71	7-D	SCREW	NMB3-6	2
72	6-C	〃	NMB3-6	3
73	7-B	〃	NMB3-6	3
74	7-B	〃	NMB3-8	1
75	8-A	SCREW	NMB3-6	5
76	7-F	SCREW	NMB3-6	7
77	2-E	〃	NMB2,6-8	2
78	1-F	〃	NMB-TS3-10	4
79	3-F	〃	NMB-TS3-10	6
80	5-D	SCREW	NMB-TS3-10	3
81	7-B	SCREW	NMB-TS3-10	3
82	8-B	〃	NMB-TS3-10	1
83	8-B	SCREW	NMB-TS3-10	4
84	4-B	WASHER	HW6	4
85	4-B	WASHER	SW6	4

TM20-16R
COLOR MONITOR
K3-904191
IKEGAMI TSUSHINKI CO. LTD


TRANSFORMER
CRT SOCKET BOARD
DEGAUSS COIL
CRT
MAIN BOARD
MULTIFIER
MATRIX SUB BOARD
NTSC SUB BOARD
CONNECTOR BOARD
FRONT LEFT BOARD
FRONT RIGHT BOARD
TM20-16RP
COLOR MONITOR
K3-904194
IKEGAMI TSUSHINKI CO.LTD

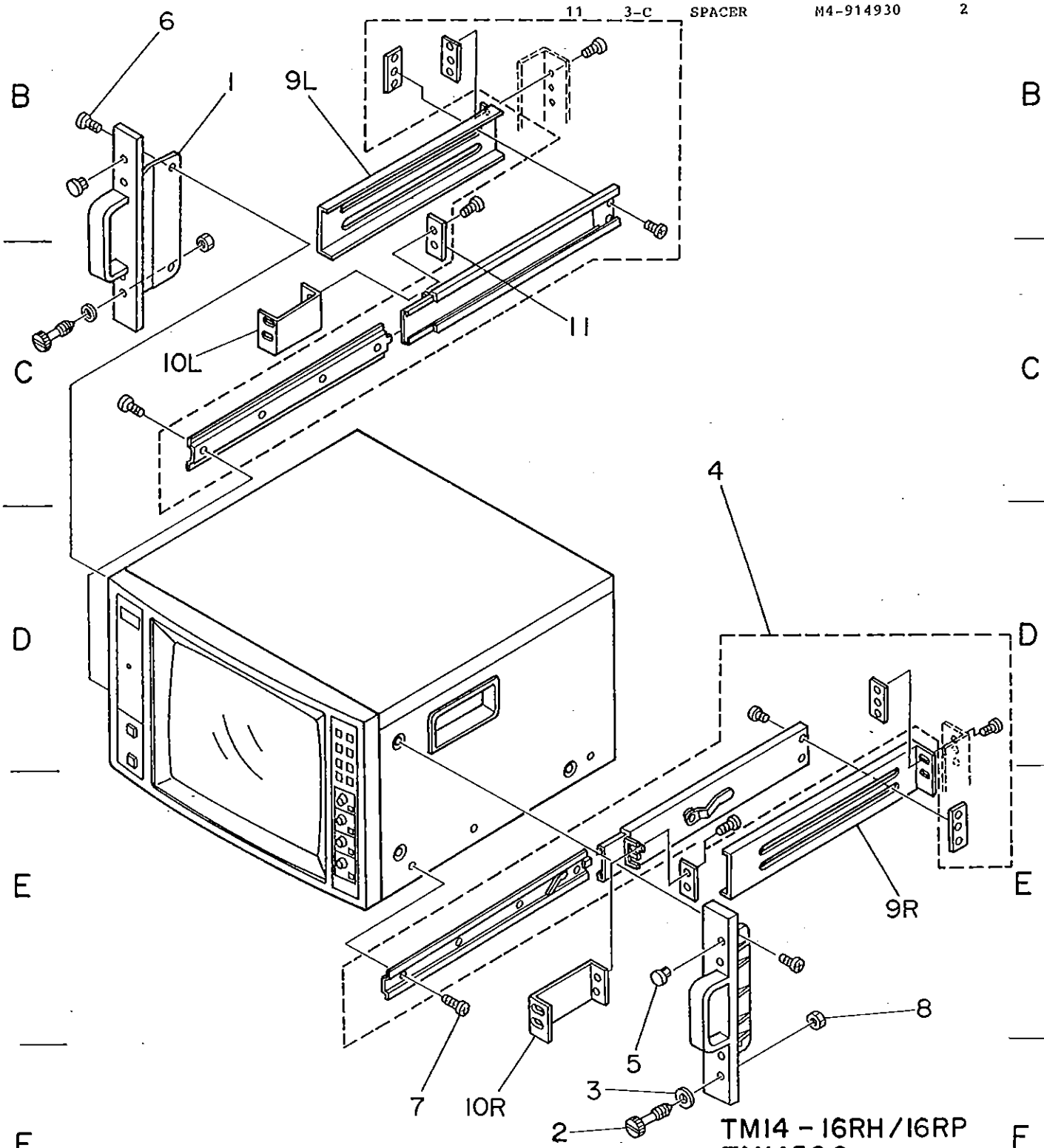
NO.	INDEX	NAME	PARTS NO.	Qty
1	2-D	ESCUTCHEON	M1-910698	1
2	5-E	FRAME (R)	M1-910387	1
3	2-C	FRAME (L)	M1-910387	1
4	5-E	BOTTOM PANEL	M3-910388	1
5	4-D	LATCH METAL	M4-910389	1
6	7-C	BOARD SUPPORT	M4-911261	1
7	2-A	HANDLE	M2-911020	2
8	5-B	SPRING	M4-279433A	4
9	4-B	CRT WASHER	M4-281236A	4
10	8-C	CONNECTOR PANEL	M2-910725	1
11	4-A	TOP COVER	M2-910473	1
12	8-E	SIDE COVER (R)	M2-910474	1
13	2-B	SIDE COVER (L)	M2-910474	1
14	8-A	REAR PANEL	M3-910475	1
15	4-B	GROUND WASHER	M4-910974	4
16	3-D	IKEGAMI MARK	D-45	1
17	7-C	BOARD BRACKT	M4-910989	1
18	6-A	CRT SOCKET COVER	M4-911208	1
19	5-F	FOOT	M4-908267	4
20	6-C	HEAT SINK (A)	M3-910556C	1
21	5-E	HEAT SINK (B)	M4-910327	2
22	5-C	SAPPORT BRACKET	M4-910794	1
23	6-C	SPACER	M4-908505	1
24	2-D	LEFT PANEL	M2-910549	1
25	2-E	HINGE (A)	M4-910548	1
26	1-E	TALLY	M4-909001	1
27	1-D	DRIVER HOLDER	M4-910498	1
28	1-D	SWITCH PANEL	M4-909955	1
29	1-D	SWITCH GUIDE	M4-908730	2
30	1-F	LED SUPPORT	M4-910311	1
31	3-F	RIGHT PANEL	M2-910835	1
32	3-F	VR KNOB	M4-908887	
33	2-F	SWITCH GUIDE	M4-908730	
34	3-C	SWITCH METAL	M4-910854	1
35	4-D	LATCH (A)	TL191(1533)	1
36	3-D	PACKING	KG-CR5890	1
37	1-C	DRIVER	EAT-1	1
38	8-B	FUSE LABEL	M4-911677	1
39				
40				
41				

NO.	INDEX	NAME	PARTS NO.	Qty
46	7-C	AC ASS'Y	ST 901439	1
47	8-D	CONNECTOR ASS'Y	ST-901438	1
48	2-F	PUSH BUTTON	ST-9686D-1	10
49	3-D	PUSH BUTTON	ST 9686D-1	2
50	6-E	CORD CLAMP	NO.3484-1000	2
51	2-B	SCREW	NMB4-6	4
52	8-F	〃	NMB4-6	4
53	2-C	〃	NMB4-12	2
54	6-F	〃	NMB4-12	2
55	4-B	SCREW	NMB4-6	2
56	8-D	SCREW	NMB4-6	2
57	5-F	〃	NMB4-14	4
58	6-E	〃	NMB4-6	1
59	6-E	〃	NMB4-6	1
60	4-B	SCREW	NM6-16	4
61	6-D	SCREW	NMB3-6	4
62	5-D	〃	NMB3-8	4
63	6-D	〃	NMB3-8	1
64	5-D	〃	NMB3-8	1
65	7-C	SCREW	NMB3-6	8
66	6-C	SCREW	NMB3-12	1
67	4-E	〃	NMB3-8	2
68	3-D	〃	NMB3-6	2
69	3-C	〃	NMB3-6	2
70	3-C	SCREW	NMB3-6	1
71	7-D	SCREW	NMB3-6	2
72	6-C	〃	NMB3-6	3
73	7-B	〃	NMB3-6	3
74	7-B	〃	NMB3-8	1
75	8-A	SCREW	NMB3-6	5
76	7-F	SCREW	NMB3-6	7
77	2-E	〃	NMB2.6-8	2
78	1-F	〃	NMB-TS3-10	4
79	3-F	〃	NMB-TS3-10	6
80	5-D	SCREW	NMB-TS3-10	3
81	7-B	SCREW	NMB-TS3-10	3
82	8-B	〃	NMB-TS3-10	1
83	8-B	SCREW	NMB-TS3-10	4
84	4-B	WASHER	HW6	4
85	4-B	WASHER	SW6	4
86	3-C	SCREW	NMB4-8	2

TM20-16RP
COLOR MONITOR
K3-904195
IKEGAMI TSUSHINKI CO. LTD

NO.	INDEX	NAME	PARTS NO.	Q'ty
1	1-B	RACK METAL	M2-911075	2
2	3-F	RACK SCREW	M4-290142	2
3	3-F	WASHER	M4-288930	2
4	3-C	SLIDES RAIL	C-300-S-16	1pair
5	3-F	HOLE CAP	M4-908028	6

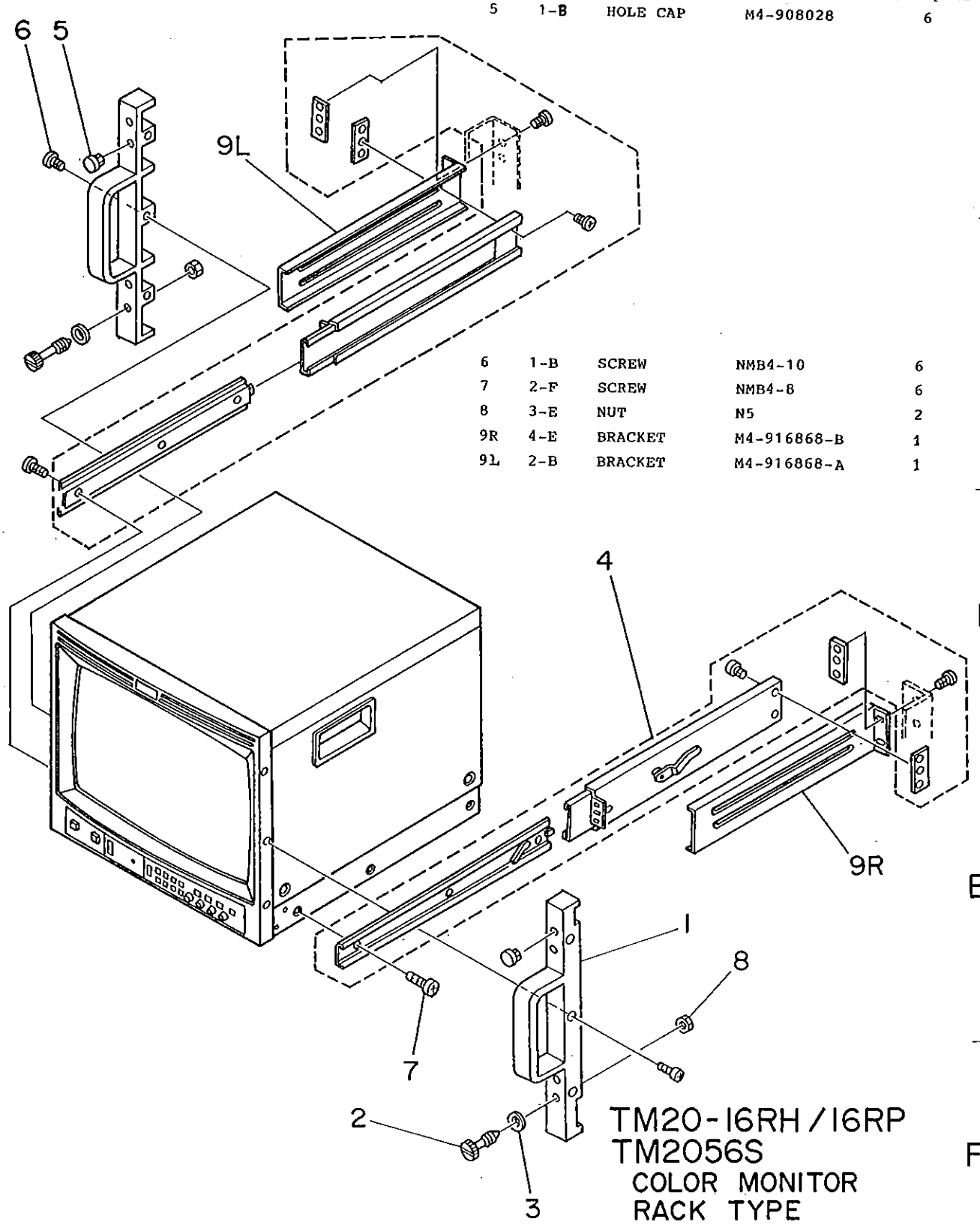
NO.	INDEX	NAME	PARTS NO.	Q'ty
6	1-B	SCREW	NMB4-16	4
7	2-F	SCREW	NMB4-8	6
8	4-E	NUT	N5	2
9R	4-E	BRACKET(REAR)	M4-914929-B	1
9L	2-B	〃	M4-914929-A	1
10R	2-F	BRACKET(FRONT)	M4-914928-B	1
10L	1-C	〃	M4-914928-A	1
11	3-C	SPACER	M4-914930	2



TM14-16RH/16RP
TM1456S
COLOR MONITOR
RACK TYPE
K4-904492-01

IKEGAMI TSUSHINKI CO. LT.D

NO.	INDEX	NAME	PARTS NO.	Q'ty
1	3-E	RACK METAL	M3-911047	2
2	2-F	RACK SCREW	M4-290142	2
3	3-F	WASHER	M4-288930	2
4	3-D	SLIDES RAIL	C-300-S-120(MOD)	1pair
5	1-B	HOLE CAP	M4-908028	6
6	1-B	SCREW	NMB4-10	6
7	2-F	SCREW	NMB4-8	6
8	3-E	NUT	N5	2
9R	4-E	BRACKET	M4-916868-B	1
9L	2-B	BRACKET	M4-916868-A	1



TM20-16RH/16RP
TM2056S
COLOR MONITOR
RACK TYPE

K4-904493-01

IKEGAMI TSUSHINKI CO. LT.D

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